# FINAL REPORT TO PRESIDENT CLINTON

COMMISSION ON
AVIATION SAFETY
AND SECURITY

VICE PRESIDENT AL GORE, CHAIRMAN

FEBRUARY 12, 1997

05T-X0142

# **EDITOR'S NOTE**

- 1. The final two sentences of the first paragraph of Recommendation 4.4 have been changed to reflect the precise nature of the agreement by U.S. airlines.
- 2. The typed version of the final report inadvertently omitted manufacturers from the list of those to whom the Commission expressed appreciation. That mistake has been corrected in this edition.
- 3. In this edition, typographical and grammatical errors have been silently corrected.
- 4. This edition contains as Appendix I a dissent by Commissioner Cummock which was transmitted to the Commission one week after the report was voted on in public session and presented to President Clinton.

During the public session, Commissioner Cummock dissented from three recommendations. The dissent published in this document goes far beyond those registered in public. It presents for the first time material and arguments the other Commissioners did not have an opportunity to consider. However, many of the arguments made in the dissent were considered and rejected by the other members of the Commission.

Supplemental material included in Commissioner Cummock's dissent is available upon request to Richard K. Pemberton, Office of the Secretary of Transportation, U.S. Department of Transportation 400 Seventh Street, S.W. Washington, DC 20590.

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# INTRODUCTION

#### Change.

That one word sums up both the challenges in aviation safety and security, and the means by which government and industry must respond. Change is nothing new in this field. The first powered flight, covering 120 feet in twelve seconds, took place just over ninety years ago. Today, planes cross the Atlantic Ocean in a matter of hours, as hundreds of passengers watch movies and dine. An industry that essentially did not even exist before World War I now occupies a central position in our economy. Today, commercial aviation generates over \$300 billion annually, and accounts for close to one million American jobs.1

The changes taking place in aviation today are as profound as any this industry has seen before. Since 1992, sixty new airlines have started service, opening up new markets, attracting new passengers, and impacting the economics of the industry significantly.2 The number of passengers flying in the United States over the last decade has grown to more than half a billion. The FAA has certified twenty new aircraft models in the last ten years, and plans are under consideration for a new High-Speed Civil Transport.

As dramatic as these changes have been, even more significant change looms on the horizon. Information technology presents opportunities that will again revolutionize the industry, in ways as significant as the introduction of the jet engine forty years ago. Air traffic today is still controlled through ground-based radar, and on a point-to-point basis. Satellite-based navigation will bring a fundamental change in the way that air traffic is directed, and may make the notion of "highway lanes in the sky" as obsolete as the bonfires that used to guide early fliers. Digital technology will replace analog systems, making communications with and among aircraft dramatically faster, more efficient, and effective. These and other new technologies offer tremendous opportunities for improved safety, security and efficiency, and will transform aviation in the same way that the Internet and World Wide Web are transforming the way the world does business.

Other changes are even more imminent. By the end of the century, the commercial fleet serving the United States will have been completely overhauled, with aircraft that make a fraction of the old noise and emit far less pollution. Continuing success in the United States' efforts to open up foreign markets to competition by our airlines likely will mean more airlines, serving more markets, carrying more people. A continuation of the trend toward greater competition and lower fares will make flying even more available to average Americans than it is today. In fact, the FAA projects that, in 2007, more than 800 million passengers will fly in the United States — three times the number who flew in 1980.3

This is a time of change for government, as well. President Clinton's declaration that "the era of big government is over,"4 coalesced a bipartisan drive to make government work better and

cost less. The Administration's commitment to government reform resulted not just from a desire to bring down government spending, but from a recognition that the same types of changes facing industries such as aviation face government, as well. Like the private sector, government must change with the times. The question is, how?

# ESTABLISHMENT OF THE COMMISSION ON AVIATION SAFETY AND SECURITY

President Clinton created the White House Commission on Aviation Safety and Security to address that question, and assigned it three specific mandates? to look at the changing security threat, and how we can address it; to examine changes in the aviation industry, and how government should adapt its regulation of it; to look at the technological changes coming to air traffic control, and what should be done to take best advantage of them. In the wake of concerns over the crash of Trans World Airlines Flight 800, President Clinton asked the Commission to focus its attention first on the issue of security. He asked for an initial report on aviation security in 45 days, including an action plan to deploy new high-technology machines to detect the most sophisticated explosives.

On September 9, 1996, the Commission presented that initial report to the President. It contained twenty recommendations for enhancing aviation security which are presented again in Chapter 3 of this report. The response to the initial report was unprecedented. In October 1996, at the request of President Clinton, the Congress appropriated over \$400 million, in direct accord with the Commission's recommendations, for the acquisition of new explosives detection technology and other security enhancements. In the five months since they were presented, implementation has begun on virtually all of the initial recommendations.

From its inception, the Commission took a hands-on approach to its work. President Clinton announced the formation of the Commission on July 25, 1996. A few days later, Vice President Gore led a site visit to Dulles International Airport, where he and other Commissioners saw airport and airline operations first-hand, and discussed issues with front line workers. This was the first of dozens of such visits. Over the next six months, the Commission visited facilities throughout the United States and in various locations abroad. Seeking to reach the broadest possible audience, the Commission established a homepage on the Internet (http://www.avia-tioncommission.dot.gov), both to make the Commission's work available and to receive input. The web site has had almost 7,000 contacts, many providing valuable insights. The Commission held six public meetings, hearing from over fifty witnesses representing a cross section of the aviation industry and the public, including families of victims of air disasters. Recognizing the increasingly global nature of aviation, the Commission co-sponsored an International Conference on Aviation Safety and Security with the George Washington University, attended by over 700 representatives from sixty-one countries.

Out of this extensive process, the Commission compiled the recommendations presented in this final report.

### A VISION FOR THE FUTURE

To compete in the global economy of the 21st Century, America needs a healthy, vibrant aviation industry. In turn, the health and vibrancy of aviation depend on improved levels of safety, security and modernization. For the last fifty years, the United States has led the field of aviation. But, that position is being challenged, both by competition from abroad and by weaknesses in our own systems.

These weaknesses can be overcome. The Commission believes that it should be a national priority to do so. This report outlines steps that can set government and industry on a course to achieve that goal together. Heading into the next century, our activities, programs, and results should define aviation safety and security for the rest of the world.

Leadership in aviation goes far beyond having strong, competitive airlines. It means assuring leadership in communications, satellite, aerospace, and other technologies that increasingly are defining the global economy. It means more than the highest possible levels of safety and security for travelers.

The Commission's report reflects a focus on this vision: to ensure greater safety and security for passengers; to restructure the relationships between government and industry into partnerships for progress; and to maintain global leadership in the aviation industry.

### KEY RECOMMENDATIONS

In the area of safety, the Commission believes that the principal focus should be on reducing the rate of accidents by a factor of five within a decade, and recommends a reengineering of the FAA's regulatory and certification programs to achieve that goal.

In the area of air traffic control, the Commission believes that the safety and efficiency improvements that will come with a modernized system should not be delayed, and recommends that the program be accelerated to achieve full operational capability by the year 2005. In addition, a more effective system must be established to finance modernization of the National Airspace System and enhancements in safety and security.

In the area of security, the Commission believes that the threat against civil aviation is changing and growing, and that the federal government must lead the fight against it. The Commission recommends that the federal government commit greater resources to improving aviation security, and work more cooperatively with the private sector and local authorities in carrying out security responsibilities.

Although not specifically directed to do so, the Commission also took up the issue of responding to aviation disasters. In this area, the Commission believes that a better coordinated and more compassionate response is necessary, and that the responsibility for coordinating the response needs to be placed with a single entity. The Commission is pleased with the progress made to date in this area, including the designation of the National Transportation Safety Board as that single entity.

Many of the Commission's recommendations apply equally to each of the three major areas of focus, including those relating to regulation and certification. Primary among these recommendations is the call for greater use of partnerships in meeting goals. Regulatory and enforcement agencies such as the Customs Service, the Occupational Safety and Health Administration, and the Food and Drug Administration have put new emphasis on partnerships with industries, and are achieving tremendous results: seizing more drugs while expediting travel for legitimate travelers; reducing workplace accidents while increasing productivity; and getting important new AIDS and cancer-fighting drugs to market in a fraction of the time it used to take.

The premise behind these partnerships is that government can set goals, and then work with industry in the most effective way to achieve them. Partnership does not mean that government gives up its authorities or responsibilities. Not all industry members are willing to be partners. In those cases, government must use its full authority to enforce the law. But, through partnerships, government works with industry to find better ways to achieve its goals, seeking to replace confrontation with cooperation. Such partnerships hold tremendous promise for improving aviation safety and security A shift away from prescriptive regulations will allow companies to take advantage of incentives and reach goals more quickly.

Transportation Secretary Peña's cooperative program with airlines to establish a single level of safety is an example of innovative government-industry partnership. Another is Vice President Gore's January 15, 1997 announcement that Boeing, in concert with government agencies, had developed a plan to modify the rudders on hundreds of its 737 aircraft. By acting without waiting for a government mandate, Boeing will complete many of these safety-enhancing modifications before the government could complete a rule requiring the action.

Partnership must extend not only to regulated entities, but also to the various federal agencies involved with aviation safety and security. A number of agencies outside the Department of Transportation have expertise and resources that can have a direct impact on improving safety and security. The Commission urges the Administration to continue to work to expand and improve these intergovernmental relationships.

In the last few years, the FAA has begun to recognize and respond to the tremendous changes it faces. Reviews such as the Challenge 2000 report examined ways of improving the way the FAA regulates operators and manufacturers. Now is the time for the FAA to build on that work, and aggressively reengineer itself to adapt to the demands of the 21st Century.

It is important to note that the FAA, alone among federal agencies, has been given some critical new tools to help shape its own future. A new Management Advisory Council will provide valuable input to the agency's decision-making process. In 1995, the Congress granted the Clinton Administration's request for unprecedented reforms of the FAA's personnel and procurement systems. These reforms give the FAA almost unlimited latitude to design new systems to meet the agency's unique and particular needs. The first phases of these reforms were implemented in April 1996, and are already producing dividends. The FAA used to have 233 procurement documents; and today there are less than 50. Using its streamlined process, the FAA recently completed a billion dollar procurement in six months, with no protests. Under the old system, it would have taken three times as long, and likely would have been delayed by costly protests. A stack of personnel rules that used to be one-foot high has been reduced to 41 pages, and will allow the agency to hire people where they're needed and when they're needed.

This flexibility will be critical to meeting the challenges of the next century As former FAA Administrator David Hinson recently noted, this type of reform is "the seed for what needs to happen at the FAA." The incoming leadership at the Department of Transportation and the FAA must utilize fully the flexibilities that have been granted if the agency is to keep pace with the rapidly changing industry it regulates.

### RESPONSIBILITY FOR IMPLEMENTING CHANGE

The Commission's goal for aviation in the next century may be summed up by the words of Robert Crandall, Chairman of American Airlines, when he said, "We would like the public to take safety and security as a given. If that is going to happen, change is necessary"?

The responsibility for achieving that change lies with all the partners in aviation. The Administration, the Congress, the entire aviation industry and its employees must work together to make the changes that are necessary to keep pace with the challenges facing them. Commitments must be made at the highest levels of every organization, in government and in the private sector.

To ensure that the government remains focused on the goals established in this report, the Commission recommends three steps:

- $m{1}_{ullet}$  that the Secretary of Transportation report publicly each year on the implementation status of these recommendations;
- 2. that the President assign the incoming leadership at the Department of Transportation and the FAA the clear mission of leading their agencies through the necessary transition to reengineered safety and security programs; and
- 3. that the performance agreements for these positions, which are the documents that senior managers sign with the President outlining their goals and specific means of measuring progress, include implementation of these recommendations.

### CHAPTER ONE:

# **IMPROVING AVIATION SAFETY**

"The FAA, despite its professionalism and many accomplishments, was simply never created to deal with the environment that has been produced by deregulation of the air transport industry."

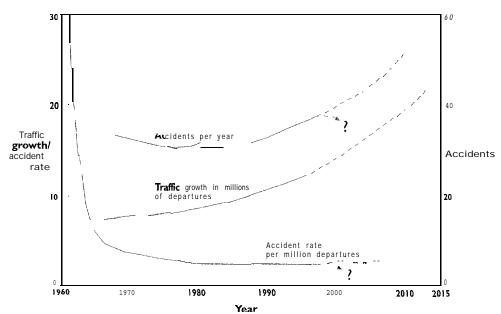
Stuart Matthews, President and CEO, Flight Safety Foundation.8

Commercial aviation is the safest mode of transportation. That record has been established not just through government regulation, but through the work of everyone involved in aviation — manufacturers, airlines, airport operators, and a highly-skilled and dedicated workforce. Their combined efforts have produced a fatal accident rate of 0.3 per million departures in the United States. The accident rate for commercial aviation declined dramatically between 1950 and 1970. But, over the last two decades, that rate has remained low, but flat.9 Heading into the next century, the overall goal of aviation safety programs is clear: to bring that rate down even lower.

Focusing on the accident rate is critical because of the projected increases in traffic. Unless that rate is reduced, the actual number of accidents will grow as traffic increases. Given the international nature of aviation, cut-

ting the accident rate is an imperative not just for the United States, but for all countries involved in aviation. Accident rates in some areas of the world exceed those in the U.S. by a factor of ten or more. Boeing projects that unless the global accident rate is reduced, by the year 2015, an airliner will crash somewhere in the world almost weekly.10

While fatality rates in general aviation are higher than in commercial operations, the principal causes of general aviation accidents are similar



Source: The Boeing Company

to commercial aviation accidents. The Commission's recommendations will help address the safety of general aviation as well.

Lessons from reinventing government must be applied to aviation programs. Improvements in safety and security will result from a focus on several key areas: expanded use of partnerships; reengineering of the FAA's regulatory and certification processes; greater focus on human factors and training; and, the faster introduction of proven new technologies. These technologies are enabling the introduction of increasingly sophisticated automation into virtually every aspect of aviation operations. They offer opportunities for improved safety, security, and efficiency, and are driving the aviation industry toward an integrated system that will alter many of the things that have remained unchanged in aviation for decades.

Adapting to these changes will require renewed commitments from all partners, and a willingness to reengineer long-standing practices and procedures. This change also calls for a cultural transformation of the FAA to improve its ability to regulate and lead the development of the integrated aviation system on the horizon. In the areas of regulation and certification, the Challenge 2000 report represents a good first step. However, it and other internal reviews have not provided a comprehensive, agency-wide assessment of the need for change. That is what is needed.

A strong government-industry partnership is needed to develop and integrate the research, standards, regulations, procedures, and infrastructure needed to support the aviation system of the future. The FAA has applied this approach successfully to cooperative research projects with NASA in the development of advanced air traffic technologies. The Commission encourages these agencies and others to expand their cooperative efforts in aviation safety research and development.

Regular and random inspection of airlines and facilities should remain an important part of the FAA's safety and security oversight programs. However, given the tremendous growth and globalization in the industry, it is neither realistic nor desirable to expect the FAA to rely on hands-on inspections to ensure safety. It is critical that industry be given the incentives and flexibility to be full partners in this effort, and be encouraged to monitor and improve their own performance. This will not only produce better focus on results, but will also allow the FAA to deploy its resources more effectively.

### RECOMMENDATIONS

# 1.1. Government and industry should establish a national goal to reduce the aviation fatal accident rate by a factor of five within ten years and conduct safety research to support that goal.

Historically, major advances in aviation safety have been driven by technological improvements in airframes, engines, communications, radar and other areas. Today, information technology can help aviation make the next leap forward in safety.

Aviation safety experts at the FAA and at NASA are confident that a five-fold reduction in the fatal accident rate could be achieved in the next decade given the right resources and focus. The Commission urges the FAA, NASA and industry to step up to this challenge. Achieving this goal will require the combined efforts of government and industry focused on three objectives: preventing equipment malfunctions; reducing human-caused mishaps; and ensuring separation between aircraft and other air or ground hazards. Government can play a strong role in research and development, but it must be in partnership with industry, which ultimately is responsible for operating safely. The Commission urges NASA, which has considerable expertise and resources in the area of safety research, to expand its involvement in the promotion of aviation safety.

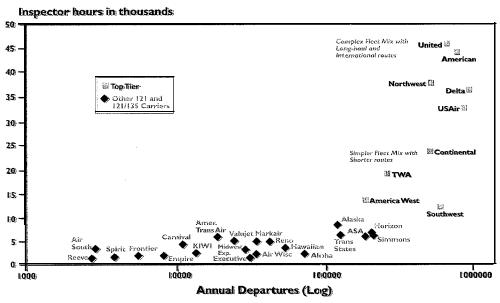
# 1.2. The FAA. should develop standards for continuous safety improvement, and should target its regulatory resources based on performance against those standards.

The FAA should promote aviation safety and security by setting high standards, requiring aviation businesses to monitor and improve their own safety performance, and by developing objective methods of measuring the ability of companies to monitor and improve their own safety. Significant efforts have already been made in this direction. Current regulations, for example, require commercial air carriers to implement a Continuing Analysis and Surveillance Program to evaluate the effectiveness of their maintenance and inspection processes. Significant investment and effort have been put into developing the Safety Performance Analysis System, which will allow safety inspectors to compare the performance of similar operators to identify trends that could lead to reduced levels of safety. Such approaches to aviation safety oversight should be broadened. Operators should be encouraged to implement systems that ensure their continued compliance with regulations and that promote continuous improvements in aviation safety and security.

Last year, the FAA undertook an independent review of its regulatory and certification programs. That effort, known as Challenge 2000, recommended in part that the agency move toward implementing rules that establish performance standards where possible, and that the

rulemaking process be streamlined and reengineered. Further, the report urged that the regulatory process be restructured to provide compelling technical and business incentives for industry to develop and certify products that help fulfill priority safety needs.

The Commission recognizes the value of the Challenge 2000 report, and urges the FAA and industry to work together to develop standards for continuous safety and security improvement that recognize variations in company maturity and best industry practices. These standards should serve as the basis for certification, regulation and oversight of the aviation industry. Objective criteria should be developed that enable the FAA to assess each organization's safety improvement processes and performance, and use this assessment to improve performance throughout the industry. As an incentive to implement effective safety and security improvement programs, FAA oversight should be adjusted to recognize the maturity and actual performance of individual operators and manufacturers. Such an approach will allow the FAA to target its inspector resources on those operators demonstrating the greatest risk, while allowing



mature operators and manufacturers to manage their organizations without unproductive FAA involvement. The FAA should adjust its internal classifications and rankings of inspectors to reflect this change.

Source: FAA

Traditionally, the FAA has assigned inspectors based primarily on the size of a regulated operation, not on a judgment of the actual need for oversight. As this chart shows, in 1995 there were far more inspectors overseeing mature, large airlines with established safety records than there were examining start-up carriers.

# 1.3. The DOT and the FAA should be more vigorous in the application of high standards for certification of aviation businesses.

In the past, both the FAA and the DOT have devoted significant resources to helping new companies meet regulatory requirements and manage their operations. The recent 90 Day

Safety Review conducted by the DOT and the FAA determined that this is an inappropriate role for the government and recommended many actions that will improve the certification process. The Commission agrees. While the government should assist companies in improving the safety and security of their operations, it should not use its resources to compensate for lack of experience, technical expertise or judgment in a company's day-to-day operations.

In some cases, the FAA's certification standards and processes have not kept up with the changing needs of civil aviation. For example, current standards for hiring security personnel do not take into account changes in explosives detection technology. And the certification of engines and airframes still reflects a time when these systems were produced as completely independent systems. Today, engine and airframe development is integrated, so the certification process must take into account the entire system rather than its individual parts. In the future, as the airplane becomes an integral component of the air traffic management system, the certification of the aircraft, as part of an integrated aviation system, will become even more important.

The FAA demonstrated its ability to integrate these processes and work effectively with industry in the certification of the Boeing 777 airplane. Lessons from the 777 certification should be applied to the way the FAA certificates airplanes in the future. Additional certification tools and processes should be developed to encourage the introduction of new technologies.

Considerable attention has been given to the issue of outsourcing of maintenance and other work, particularly in the wake of the Valujet crash. The Commission does not believe that outsourcing, in and of itself, presents a problem — if it is performed by qualified companies and individuals. The proper focus of concern should be on the FAA's certification and oversight of any and all companies performing aviation safety functions, including repair stations certificated by the FAA but located outside of the United States.

# 1.4. The Federal Aviation Regulations (FARs) should be simplified and, as appropriate, rewritten as plain English, performance-based regulations.

The Commission believes that government can achieve better regulatory compliance if its objectives are stated clearly and its focus is on goals, not process. While that sounds simple, the FAA's rules too often do not meet those criteria.

The Commission urges the FAA to take two steps to address this problem. First, as appropriate, all new rules should be rewritten as performance-based regulations, and in plain English. Second, within 18 months, a bottom-up review of existing regulations should be conducted to identify those in need of rewriting as performance-based, plain English regulations. Such clarifications would improve compliance and help the FAA resolve serious problems created by differences in interpretation of regulations by FAA officials across the country.

The current FARs and supporting Handbooks, Technical Standards Orders, Security Directives, and Advisory Circulars have become too prescriptive and complex and are increasingly open to

misinterpretation. Sometimes they provide conflicting policy or procedural guidance. They often stifle the creativity of those who would do more than the rules require. In many cases, the  $FAR_S$  do not allow for advances in technology that increase security, safety or efficiency. For example, the  $FAR_S$  currently have no provisions for design criteria to protect aircraft from high intensity electromagnetic fields such as those emanating from TV antennas, radars, cellular phones, portable stereos, and laptop computers. These electromagnetic fields are potentially hazardous to aircraft using digital communications, avionics and flight controls. The FAA has been working for more than eight years to develop standard certification requirements to address these hazards, but today each certification is handled through the use of special conditions. Mandating performance rather than dictating procedures will break the regulatory logiam.

# 1.5. Cost alone should not become dispositive in deciding aviation safety and security rulemaking issues.

As noted earlier, the rate of fatal accidents in commercial aviation in the U.S. is less than 0.3 per million departures. The rarity of accidents can make it difficult to justify safety and security improvements under benefit-cost criteria applied to regulatory activities. Nevertheless, benefit-cost analysis can enlighten the regulatory decision-making process. For example, such analysis can help identify the most cost-effective way to achieve a safety or security objective. Cost considerations and mathematical formulas, however, should never be dispositive in making policy determinations regarding aviation safety — they are one input for decision-making. Further, non-quantifiable safety and security benefits should be included in the analysis of proposals.

# 1.6. Government and industry aviation safety research should emphasize human factors and training.

Over the past ten years, flight crew error accounted for over 60% of all aviation accidents world-wide. And over the past five years, two types of flight crew error, loss of control in flight and controlled flight into terrain, accounted for over 70% of all airline fatalities. Moreover, recent airport testing of explosive detection systems revealed significant deficiencies in the performance of security personnel. Research, technology, training and sharing of safety data can reduce human error. Aviation safety and security have always depended upon a talented and dedicated workforce. Today, changes in technology are presenting that workforce — flight crews, ground and air traffic controllers, maintenance technicians — with new challenges. The aviation system will continue to rely on these highly skilled people to be responsible for all aspects of operations, and it is critical to assess and address issues relating to human interaction with changing technologies.

The FAA, NASA, the DoD, and the aviation industry jointly developed a National Aviation Human Factors Plan that describes a strategic approach to solving the problem of human-caused mishaps. Two additional studies, one by the FAA dealing with flight deck human factors and the other published by representatives from government, industry, and union organizations.

tions as their 1997 Aviation Safety Plan, identify a wide range of safety issues, including human factors. The Commission acknowledges the importance of all three of these reports and urges the immediate development of an implementation plan.

# 1.7. Enhanced ground proximity warning systems should be installed in all commercial and military passenger aircraft.

The introduction of ground proximity warning systems (GPWS) in commercial aircraft in the late-1970s led to significant reductions in controlled flight into terrain, the second-leading cause of aviation accidents. These accidents occur when pilots cannot reconcile their positions with changing terrain. Current GPWS systems are not predictive, however, and only warn pilots when ground impact is imminent. Several recent incidents indicate the need for a forward-looking system that can provide better situational awareness and advanced warning to pilots when they are approaching hazardous terrain. Digital terrain elevation data developed for military purposes can help provide this capability.

On January 15, 1997, Vice President Gore announced that the Department of Defense is releasing a version of its global digital terrain elevation database for use in the civilian sector. Combined with advanced navigation systems, this will provide pilots with the tools that they need to reduce, and maybe even eliminate, these kinds of accidents in the future.

The Commission applauds the voluntary introduction of advanced ground proximity warning systems in commercial aircraft, and urges all segments of the aviation community to install this vital safety system. To achieve this goal, the Commission urges the FAA to work with industry to develop and promote the use of such equipment in general aviation aircraft.

# 1.8. The FM should work with the aviation community to develop and protect the integrity of standard safety databases that can be shared in accident prevention programs.

The identification of deviations from normal operations, adverse trends, and other incidents can be a valuable tool in preventing accidents. The most effective way to identify incidents and problems in aviation is for the people who operate in the system (pilots, mechanics, controllers, dispatchers, etc.) to self-disclose the information. There are a number of separate safety data collection efforts ongoing within government and industry. Many of these efforts either duplicate existing data, report the same information, or are not interconnected or integrated. The FAA should work with the aviation community to develop standard databases of safety information that can be shared openly and encompass operations within the aviation industry as well as those within the FAA, such as air traffic control.

People and companies will not provide or assemble safety data or information if the information will disclose trade secrets, if it can threaten a person's job or be used in an enforcement action against a person or company, or if it can in any way cause them a liability. Data protection is

the key to self-disclosure. The Flight Safety Foundation has studied this issue and concluded that legislation is the only way to guarantee protection of safety data. The joint industry/DOT Aviation Safety Plan cites data protection as a key to achieving Zero Accidents. The Congress, at the request of the Administration, recently enacted legislation providing for the protection from public disclosure of certain safety and security data voluntarily provided to the FAA. The FAA needs to expeditiously complete its rulemaking to implement this legislation. Since adequate legislative protection is key to building the trust necessary for self disclosure and safety monitoring, the FAA should assess the adequacy of the new legislative authority and implementing regulations one year after the regulations take effect. Any necessary regulatory or legislative modifications identified at that time should be promptly addressed.

# 1.9. In cooperation with airlines and manufacturers, the FAA's Aging Aircraft program should be expanded to cover non-structural systems.

The average age of commercial airline fleets is continuing to increase. In 1975, few large commercial aircraft were in service beyond their original design life, typically twenty years. But with increased competition and growth in passenger and cargo traffic brought on by deregulation, service lives of dependable aircraft models were extended through expanded maintenance and overhaul programs. By the year 2000, more than 2,500 commercial aircraft in the United States may be flying beyond their original design life.11

In 1988, a Boeing 737 in Hawaii suffered severe structural failure of its forward fuselage sections due to corrosion not visible during normal maintenance inspections. As a direct result of this accident, the FAA greatly expanded its structural integrity inspection program and formed the Airworthiness Assurance Working Group (AAWG). Its focus has been almost exclusively on structural integrity, and the effects of structural corrosion and fatigue. The programs in existence under the AAWG have been effective and are considered adequate to deal proactively with the structural problems associated with aging commercial aircraft.

However, much less is known about the potential effects of age on non-structural components of commercial aircraft. Non-structural components include electrical wiring; connectors, wiring harnesses, and cables; fuel, hydraulic and pneumatic lines; and electro-mechanical systems such as pumps, sensors, and actuators. Neither the manufacturers nor the commercial airlines consider the aging of non-structural components to pose serious safety problems primarily because they consider their redundancy, replacement upon failure, and periodic, programmed maintenance to be sufficient to assure aircraft safety.

The Commission is concerned that existing procedures, directives, quality assurance, and inspections may not be sufficient to prevent safety related problems caused by corrosion and deterioration of non-structural components of commercial aircraft as they age. To address this, the Commission recommends that the FAA work with airlines and manufacturers to expand the aging aircraft program to include non-structural components, through steps including: full and complete tear-downs of selected aircraft scheduled to go out of service; the establishment of

a lead-the-fleet research program; an expansion of the FAA-DoD-NASA cooperative aging air-craft program; an expansion of programs of the Airworthiness Assurance Working Group to include non-structural components; and encouraging the development of modern technical means to ensure and predict the continued airworthiness of aging non-structural components and systems.

# 1.10. The FAA should develop better quantitative models and analytic techniques to inform management decision-making.

The FAA is called upon to evaluate many proposals for safety and security improvements and capacity enhancements as part of its NAS modernization, and other programs. The FAA does not have a developed model for the air traffic control system that permits the systematic evaluation and comparison of these proposals with respect to their life-cycle cost and their likely effects on the operation of the air traffic control system. If available, such analysis would be of great assistance to support decision-making by the FAA and the DOT leadership.

The Commission urges the FAA to strengthen its analytic and planning tools, especially through the development of models that give insight into the system-wide consequences of alternative courses of action and the development of a credible cost accounting system, as mandated in the Federal Aviation Reauthorization Act of 1996.

# 1.11. The DOT should work with the Department of Justice to ensure that airline crew members performing their duties are protected from passenger misconduct.

Passenger behavior that amounts to criminal conduct is a matter of growing concern to U.S. airlines. When crew members are called upon to enforce in-flight safety and security rules and regulations, they are working to ensure that our aviation system remains safe and secure. Their responsibilities at times require them to confront passengers who are unwilling to comply with lawful instructions and become abusive. Such conduct by passengers threatens the well-being of all those on the plane, and is subject to federal prosecution. The Commission urges the DOT to work with the Department of Justice and the United States Attorneys to ensure that priority is given the prosecution of offending passengers to the fullest extent of the law for interfering with airline crew members in the performance of their duties.

# 1.12. Legislation should be enacted to protect aviation industry employees who report safety or security violations.

In a number of important industries, statutory protection is provided to "whistleblowers" who report violations of safety procedures. The Commission believes that aviation safety and security will be enhanced if employees, who are a critical link in safety and security, are able to report unsafe conditions to the FAA without fear of retribution from their employers. Some aviation employees are provided protections through contractual agreements. However, the Commission

believes that statutory protection, such as that provided to workers under the Occupational Health and Safety Act, would provide uniformity within the industry and provide coverage to those not already protected.

# 1.13. The FAA should eliminate the exemptions in the Federal Aviation Regulations that allow passengers under the age of two to travel without the benefit of FAA-approved restraints.

Current regulations require that all passengers over the age of two have their own seats, and that those seats are equipped with FAA-approved restraints. The Commission believes that it is inappropriate for infants to be afforded a lesser degree of protection than older passengers. The FAA should revise its regulations to require that all occupants be restrained during takeoff, landing, and turbulent conditions, and that all infants and small children below the weight of 40 pounds and under the height of 40 inches be restrained in an appropriate child restraint system, such as child safety seats, appropriate to their height and weight. The Commission also notes and commends the FAA's ongoing efforts in collaboration with major airframe and seat manufacturers to develop standards for integrated child safety seats.

# 1.14. The Commission commends the joint government-industry initiative to equip the cargo holds of all passenger aircraft with smoke detectors, and urges expeditious implementation of the rules and other steps necessary to achieve the goal of both detection and suppression in all cargo holds.

In December 1996, most of the nation's major airlines announced a voluntary action to install smoke detection systems in the cargo holds of commercial airplanes and to study additional measures for fire suppression. This announcement broke a deadlock that had existed for most of the last decade. The Commission commends this initiative as an example of the partnership that will be necessary to enhance safety and security.

### CHAPTER Two:

# MAKING AIR TRAFFIC CONTROL SAFER AND MORE EFFICIENT

"While the airlines are posting record traffic figures and profits, the ground-based air traffic control infrastructure is outdated and unable to keep pace with expansion."

Barry Krasner, President of the National Air Traffic Controllers Association 12

It is essential that the air traffic system of the United States be modernized. Although the current system remains safe, it is showing signs of aging. System outages, brownouts, inefficiencies in air traffic control, and capacity limitations on the ground add costs to the FAA and to users of the airspace system. The Air Transport Association estimates that inefficiencies in the system cost airlines in excess of \$3 billion in 1995 — costs ultimately paid by passengers and anyone who purchases goods shipped by air.

In 1996, a government-industry task force defined a future operational concept known as Free Flight<sup>13</sup>. Under this concept, national airspace system (NAS) operations will transition from ground-based air traffic *control* (using analog radios, navigational beacons and radar) to more collaborative air traffic management based on digital communication, satellite navigation, and computer-aided decision support tools for controllers and pilots. This proposed new system offers significant benefits for users of the NAS, for the safety and convenience of the traveling public, and for greater FAA operational efficiency.

The FAA's proposed technical approach and schedule for NAS modernization are documented in its recently published National Airspace System Architecture. The proposed NAS architecture is generally consistent with industry's vision for the future of air traffic management, but the proposed schedule for modernization is too slow to meet projected demands and funding issues are not adequately addressed. Unless the schedule is accelerated, the United States may lose its position of global leadership in civil aviation.

The technology needed to modernize the ATC system by and large exists, and is available off-the-shelf The challenge is completing the transition to the new system in a timely and cost-effective manner, and ensuring that all users participate in the upgrade. Unfortunately, the FAA has encountered serious problems in its modernization program. Before major changes were made in 1994, the centerpiece of the FAA's modernization program had, according to the General Accounting Office, fallen eight years behind schedule, and was \$5 billion over budget. Cost overruns in five other key programs ranged from 50 to more than 500%, and delays averaged close to four years.14

Major Shutdowns of Air Traffic Control Facilities Affecting 100 or more flights, 1995199615

Location	Flights Delayed	Duration of shutdown (hr:min)
New York	485	5:49
Oakland	333	0:34
Chicago	313	0:46
Ft. Worth	263	14:35
Ft. Worth	238	3:49
New York	238	0:37
Chicago	234	1:05
Ft. Worth	224	2:17
New York	189	0:36
Chicago	161	0:44
Jacksonville	138	1:44
Seattle	135	2:02

These problems have been traced to inadequate user input, poor management and contractor performance, and inadequate oversight. Although availability of funds does not appear to have been a problem in the past, the capital needs of the future could well outstrip the ability to fund them through the traditional budget process, particularly if capital improvements are accelerated, as recommended by the Commission.

Traditionally, the FAA has seen it necessary to design, own and operate its air traffic control system, in cooperation with the Department of Defense. Current off-the-shelf technology allows the FAA to consider its needs differently, particularly in areas such as the acquisition of communications systems. In other critical areas of government, including Defense, the private sector has proved its ability to provide critical services

with increased quality and lower costs. A number of major U.S. manufacturers are producing new ATC systems for deployment in other countries. The FAA should seek collaborative opportunities with the private sector in order to accelerate the transition to a new NAS.

There have been several important'changes that should allow the modernization program to move forward more effectively. The Commission notes, in particular, the following factors which should help avoid problems of the past: the redefinition of the modernization program; the personnel and procurement reforms granted the FAA, which give it unprecedented ability to hold managers accountable for results and to streamline procurement processes; and the creation of the new Management Advisory Committee by the Congress, which will give users a more effective voice in decision-making. However, the Commission believes that a new long-term financing mechanism is also necessary to ensure that modernization occurs on an acceptable schedule, and that the resulting safety and efficiency benefits are realized faster.

The FAA must take advantage of personnel, procurement, and other reforms to ensure that it is spending existing resources more effectively in order to gain approval of innovative funding proposals from the Administration and the Congress. Additionally, the Commission believes that it is critical that the senior management at the DOT and the FAA take additional steps to ensure that past problems are being dealt with, and that an accelerated modernization schedule can proceed.

### RECOMMENDATIONS

# 2.1. The FAA should develop a revised NAS modernization plan within six months that will set a goal of the modernized system being fully operational nationwide by the year 2005; and the Congress, the Administration, and users should develop innovative means of financing this acceleration.

Modernization of our aging airspace system is critical to the safety of the traveling public, to maintaining our world leadership in aviation, and to our economic interests. The FAA's current plan calls for the modernized system to be operational after 2012. That is simply too long to postpone the safety and economic benefits that will derive from the modernized system. Therefore, the Commission recommends that 2005 be set as the date when all elements of the communication, navigation, and surveillance and air traffic management capabilities defined in the NAS architecture should be fully operational. This accelerated implementation must be coordinated with the Department of Defense, which is a major user and provider of air traffic control services. Implementation of the initiative announced by Vice President Gore on January 15, 1997 to demonstrate these systems in Hawaii and Alaska is an important step toward full operational status.

Achieving this goal depends on the availability of several tools, as discussed in the following recommendations. Chief among these tools is the need to find non-traditional means of financing the capital improvements. Innovative approaches to federal financing of major infrastructure projects have been proposed in the past, including leveraging the revenues coming into the FAA, multi-year appropriations and non-traditional budget scoring. Non-federal financing approaches have also been proposed, such as the creation of private infrastructure banks. The Commission expects that the National Civil Aviation Review Commission (NCARC), established in the Federal Aviation Reauthorization Act of 1996 by Congress to explore funding options for the FAA, will consider these options. Whatever the funding mechanism selected, the Commission believes it is critical to our global leadership in civil aviation to finance an accelerated modernization of the NAS.

# 2.2. The FAA should develop plans to ensure that operational and airport capacity needs are integrated into the modernization of the NAS.

The FAA's current NAS modernization program focuses on equipment and infrastructure. However, there is no clear plan for how the people who operate the system will make the transition, and what their roles and responsibilities will be under the new systems. The FAA should develop immediately a NAS Operational Plan to address these issues.

The FAA should also develop a National Airport System Modernization Plan that presents a strategic vision, plan and schedule for modernization of U.S. airports that is consistent with

modernization of the NAS. This plan, produced in collaboration with local airport officials, should identify critical system capacity enhancement needs and should address major safety issues at airports. These plans, when incorporated into the revised NAS implementation plan called for in recommendation 2.1, would provide a balanced strategic plan for aviation in the United States.

# 2.3. The FAA should explore innovative means to accelerate the installation of advanced avionics in general aviation aircraft.

The safety and efficiency benefits of the modernized NAS will not be realized fully until all users have incorporated its features. Delays in the installation of the equipment needed to operate in the future NAS will put off the benefits for all system users. Therefore, it is essential that the FAA, as it accelerates its modernization, works with users to ensure that they keep pace.

Savings from more efficient operations provide significant incentive for commercial carriers to install the required digital radios, GPS receivers, and automatic dependent surveillance equipment. But it is essential to find ways to ensure general aviation users are equipped for future NAS operations.

# 2.4. The U.S. government should ensure the accuracy, availability and reliability of the GPS system to accelerate its use in NAS modernization and to encourage its acceptance as an international standard for aviation.

Satellite-based navigation and positioning is a core element of our NAS modernization plans, and is critical to achieving a seamless, efficient global aviation system in the future. The U.S. Global Positioning System (GPS) to his a dual civil-military system operated by the U.S. Air Force, is the current and foreseeable backbone for any global navigation satellite system. Full acceptance of GPS as an international standard for aviation is dependent on greater assurance to the user community — both foreign and domestic — of its accuracy, availability and reliability. As part of its NAS modernization plans, the FAA is currently developing a Wide Area Augmentation System (WAAS) that will enhance the basic GPS civil service to meet the requirements of civil aviation users. Many other nations, including Europe and Japan, are planning similar augmentations, but are still somewhat reluctant to base their own airspace management on a GPS system which they perceive to be controlled by the U.S. military.

The recent U.S. GPS policy made considerable progress in addressing these international concerns by assuring the continued availability of basic civil GPS services worldwide, free of direct user fees. This new policy also established a joint civil-military Executive Board to manage GPS and its augmentations, and initiated formal international discussions aimed at developing agreements on the provision and use of GPS services. But, there are still a number of important technical and policy issues that must be resolved if GPS is to become the system of choice for global aviation navigation and positioning.

First, the U.S. must provide stronger strategic leadership for civil users of GPS. The acceptance of GPS as an international standard is key to continued U.S. leadership in aviation, and can only be achieved through strong civilian participation in GPS planning and decision-making. A number of working groups and advisory committees currently exist throughout the Federal government and the private sector to coordinate and represent the needs of civil users of GPS. The Commission recommends that civilian leadership be strengthened by establishing a Civil GPS Users Advisory Council, with representatives from both the users and providers of GPS equipment and services, reporting to the GPS Executive Board. The Commission also encourages the Administration to work rapidly on the development of international guidelines on the provision and use of GPS services called for in the President's recent GPS policy directive.

Second, greater redundancy is needed to enhance the ability of users to cross-check GPS accuracy and to verify the system's reliability. The most effective means of achieving this redundancy is to provide additional civil GPS precision ranging signals in space. Studies have shown that additional precision ranging capability can be achieved at relatively little cost while providing enormous benefits to all civil GPS users. The Commission recommends that this capability be added to the FAA's WAAS system. This action will result in a more robust and inherently more reliable system and will provide a major boost to the international acceptance of GPS as a standard for aviation navigation and positioning.

Third, the GPS Executive Board should resolve the remaining issues over funding and frequency assignment for a second civil frequency as quickly as possible so that this needed improvement can be included in the next generation of GPS satellites. The GPS Executive Board is considering enhancements to future GPS satellites that would include an additional broadcast frequency. This additional frequency would expand the base of civil GPS users worldwide and would send a strong message to the international community that the U.S. intends to maintain a long-term commitment to providing civil GPS services. Moreover, the FAA's WAAS system requires two frequencies to meet the accuracy needs of civil aviation users, and the additional frequency would allow for complete independence of civil and military GPS services in the future.

**Fourth, the GPS system must be protected from both intentional and unintentional interference.** The GPS system will be a core, safety-critical component of the future global aviation information system. The security of GPS should be a major consideration in carrying out Recommendation 3.6 for protecting all aviation information systems.

### 2.5. The users of the NAS should fund its development and operation.

The current system of funding the ATC system provides little direct connection between the excise taxes paid and services provided or the amount made available to the FAA through the budget and appropriations process. Replacing the traditional system of excise taxes with user fees offers the potential to correlate revenues and spending more closely\* Importantly, a financing system would not only help ensure adequate availability of funding, but would also build incen-

tives for efficiency and safety into the system — both for the users and for the FAA. The National Civil Aviation Review Commission is the proper venue for resolving the details of a new user fee system, and the Commission expects that it will be formed and begin its work in the very near future. The Commission urges the NCARC, in designing a new financing system, to ensure that any changes in the relative amount of revenues generated from any segment of the aviation industry do not result in undue economic disruption within any segment of the industry, and that the fees are not discriminatory or anti-competitive among carriers. In addition, non-business general aviation users of the NAS should not be adversely impacted by any new financing system. This will help ensure that general aviation users will be full and willing participants in the modernized NAS.

\* Mr. Coleman takes no position with respect to the first two sentences of recommendation 2.5 as he feels this is among the issues NCARC is to resolve.

# 2.6. The FAA should identify and justify by July 1997 the frequency spectrum necessary for the transition to a modernized air traffic control system.

Expansion of telecommunications and other industries is creating greater competition for frequency spectrum. The FAA has indicated a need to retain large segments of its current spectrum allocation, but has provided insufficient justification for doing so. To ensure that the FAA's spectrum needs during modernization are not compromised the Commission recommends that the FAA complete a full justification, as well as a plan for freeing up spectrum as older systems are modernized or decommissioned. This process must be completed not later than July, 1997, and the results included by the DOT in the Federal Radio Navigation Plan and the RTCA 185 Report: Aeronautical Spectrum Planning for the Years 1997-2010.

### RECOMMENDATIONS

# 3.1. The federal government should consider aviation security as a national security issue, and provide substantial funding for capital improvements.

The Commission believes that terrorist attacks on civil aviation are directed at the United States, and that there should be an ongoing federal commitment to reducing the threats that they pose. In its initial report, the Commission called for approximately \$160 million in federal funds for capital costs associated with improving security, and Congress agreed. As part of its ongoing commitment, the federal government should devote significant resources, of approximately \$100 million annually, to meet capital requirements identified by airport consortia and the FAA. The Commission recognizes that more is needed. The Commission expects the National Civil Aviation Review Commission to consider a variety of options for additional user fees that could be used to pay for security measures including, among others, an aviation user security surcharge, the imposition of local security fees, tax incentives and other means.

# **3.2.** The FAA should establish federally mandated standards for security enhancements.

These enhancements should include standards for use of Explosive Detection System (EDS) machines, training programs for security personnel, use of automated bag match technology, development of profiling programs (manual and automated), and deployment of explosive detection canine teams.

# 3.3. The Postal Service should advise customers that all packages weighing over 16 ounces will be subject to examination for explosives and other threat objects in order to move by air.

The Postal Service now requires that packages weighing over 16 ounces must be brought to a post office, rather than be placed in a mailbox. To improve security further, the Postal Service should mandate that all mail weighing over 16 ounces contain a written release that allows it to be examined by explosive detection systems in order to be shipped by air. The Postal Service should develop and implement procedures to randomly screen such packages for explosives and other threat objects. If necessary, the Postal Service should seek appropriate legislation to accomplish this.

# 3.4. Current law should be amended to clarify the U.S. Customs Service's authority to search outbound international mail.

Currently, the Customs Service searches for explosives and other threat objects on inbound mail and cargo. This recommended legislative enhancement parallels the Customs Service's existing border search authority.

# 3.5. The FAA should implement a comprehensive plan to address the threat of explosives and other threat objects in cargo and work with industry to develop new initiatives in this area.

The FAA should place greater emphasis on the work of teams, such as the Aviation Security Advisory Committee and the Baseline Cargo Working Group, to address cargo issues. The Commission believes that the FAA should implement the Baseline Group's recommendation with regard to profiling by "known" and "unknown" shippers. In addition, unaccompanied express shipments on commercial passenger aircraft should be subject to examination by explosives detection systems; the FAA should work with industry to develop a computer assisted cargo profiling system that can be integrated into airlines' and forwarders' reservation and operating systems; requirements should be implemented requiring that trucks delivering cargo for loading on planes be sealed and locked; the FM should develop and distribute air cargo security training materials; and enhanced forwarder and shipper employee screening procedures should be developed.

# 3.6. The FAA should establish a security system that will provide a high level of protection for all aviation information systems.

In addition to improving the physical security of the traveling public, information systems critical to aircraft, air traffic control and airports should also be protected. Although government is responsible for a great number of aviation related information systems, a partnership must be formed in order to create integrated protection among these and related private sector systems. Some protective measures will become the responsibility of airlines, some that of the airports and others of the aircraft and air traffic control systems manufacturers and maintenance providers. The National Security Agency must play a role in coordinating information security measures, setting standards and providing oversight of system security to ensure protection against outside interference, disruption and corruption. Specific legislation should be reviewed that makes willful interference with information systems a federal crime with substantial penalties to provide a clear deterrent.

# 3.7. The FAA should work with airlines and airport consortia to ensure that all passengers are positively identified and subjected to security procedures before they board aircraft.

Curb-side check-in, electronic ticketing, advance boarding passes, and other initiatives are affecting the way passengers enter the air transportation system. As improved security procedures are put into place, it is essential that all passengers be accounted for in that system, properly identified and subject to the same level of scrutiny. The Commission urges the FAA to work with airlines and airport consortia to ensure that necessary changes are made to accomplish that goal.

# THE FOLLOWING RECOMMENDATIONS WERE PRESENTED TO PRESIDENT CLINTON ON SEPTEMBER 9, 1996

3.12. Establish consortia at all commercial airports to implement enhancements to aviation safety and security.

Recommendation from Initial Report dated September 9, 1996

2 • Establish consortia at all commercial airports to implement enhancements to aviation safety and security. The Commission is convinced that safety, security, efficiency, and affordability can go hand in hand if all parties work as partners. The FAA should direct its officials responsible for oversight of security procedures at the nation's 450 commercial airports to convene relevant aviation and law enforcement entities for the purpose of implementing the Commission's recommendations and further improving aviation safety and security.

At each airport, these partners will: (1) immediately conduct a vulnerability assessment; and (2) based on that assessment, develop an action plan that includes the deployment of new technology and processes to enhance aviation safety and security.

The FAA will approve these action plans on an expedited basis; procure and allocate, based on availability, new equipment; and test airports to ensure that the plans are being implemented properly.

#### Status

Forty-one major airport consortia have submitted action plans for FAA review.

The Commission's most important recommendation in its initial report was that local consortia be convened to identify vulnerabilities and propose action plans. The Federal Aviation Administration (FAA) called for initial consortia meetings by September 27, 1996, at 41 major U.S. airports where FAA personnel are permanently deployed. By December 2, 1996, all consortia action plans or reports from these airports had been presented to the FAA for review. The consortia action plans defined local security threat conditions based on input from FAA and the Federal Bureau of Investigation. Consortia also assessed other areas such as personnel training, passenger screening, access control measures, and equipment and technology needs.

#### Augmenting Recommendation

The FAA should formalize the establishment of consortia at all Category X through Category III airports by September 30, 1997, and, after consultation with industry, issue guidance on the future of consortia.

#### 3.13. Conduct airport vulnerability assessments and develop action plans.

Recommendation from Initial Report dated September 9, 1996

2. Conduct airport vulnerability assessments and develop action plans. Using models already developed by Sandia National Laboratory, periodic vulnerability assessments of the nation's commercial airports should be conducted. Based on the results, action plans tailored to each airport will be developed for expedited approval by the FAA.

#### Status

#### Law enforcement agencies are conducting assessments and addressing problems.

The FAA Authorization Act of 1996 required the FAA and FBI to conduct joint threat and vulnerability assessments on security every three years, or more frequently if necessary, at each airport determined to be high risk.

In November 1996, officials from the FBI, FAA and Department of Transportation (DOT) established a working group to define "high risk" airports. Discussions have been held on the criteria to be used to identify an airport facility as high risk, the methodology to use in conducting joint FAA/FBI vulnerability assessments, and which airports should be assessed on a priority basis. The target date for completing the procedures for conducting vulnerability assessments is April 30, 1997, and initial assessments are to begin by late June, 1997.

**3.14.** Require criminal background checks and FBI fingerprint checks for all screeners, and all airport and airline employees with access to secure areas.

Recommendation from Initial Report dated September 9, 1996

3. Require criminal background checks and FBI fingerprint checks for all screeners, and all airport and airline employees with access to secure areas. Currently, employees, including those with unescorted access to secure areas of airports, are not subject to such review. Given the xisks associated with the potential introduction of explosives into these areas, the Commission recommends that screeners and employees with access to secure areas be subject to criminal background checks and FBI fingerprint checks.

#### Status

#### The FBI has reduced fingerprint check turnaround time to at most seven days.

The FBI has expedited the processing of aviation related fingerprint submissions. The FBI will accelerate its efforts to make software modifications and purchase additional computer hardware to adapt its Electronic Fingerprinting Image Print Server (EFIPS) system to accept civil fingerprint cards.

#### Augmenting Recommendation

The Commission reiterates that the overall goal is FBI fingerprint checks of all airport and airline employees with access to secure areas, no later than mid-1999.

#### 3.15. Deploy existing technology.

### Recommendation from Initial Report dated September 9, 1996

4 • Deploy existing technology. The Commission has reviewed numerous machines designed to detect explosives in cargo, checked baggage, carry-on bags, and on passengers. There is no silver bullet. No single machine offers a solution to the challenges we face. Each machine has its own advantages and its own limitations. Even machines that work fairly well in the laboratory need to be tested in actual use at busy airports. We recognize that the FAA has certified only one technology for baggage screening, but we believe we must get a variety of machines, including some in use in other countries, into the field. There day-to-day operators can figure out which equipment works best in what situations and combinations, and what features need to be improved. Finding the strengths and weakness of existing technology will spur industry's creativity, leading to the invention of better and better instruments. Ultimately, the goal should be to deploy equipment that can be certified by the FAA. to detect explosives likely to be used by terrorists.

The Commission recommends the government purchase significant numbers of computed tomography detection systems, upgraded x-rays, and other innovative systems. By deploying equipment widely, passengers throughout the aviation system will receive the benefits of the enhancements. The Commission strongly believes it would be improper to discuss the details of such deployment, as to do so would serve only to compromise the integrity of an enhanced security system.

The Commission recommends that this initial equipment purchase be paid for with appropriated funds. This recommendation does not settle the issue of how security costs will be financed in the long run. That will be dealt with in our final report

#### Status

Congress funded the purchase of commercially available advanced security screening equipment.

The FAA has ordered 54 advanced explosives detection systems.

In November and December 1996, FAA awarded six fixed priced contracts to various manufacturers of explosives trace detection technologies.

#### Augmenting Recommendation

The Commission recognizes that deployed technology for examining carry-on baggage may be outdated. New developments such as computerized systems with high resolution digital displays, innovative use of color to highlight threat objects, and ability to accommodate technologies such as threat image projection to maintain screener performance, can provide enhanced security. The FAA should review available technology for screening carry on items, regularly update minimum standards for new installations, and develop programs for upgrading deployed technology.

#### Cross Reference to Related Recommendations

This recommendation is related to recommendation 3.2.

# 3.16. Establish a joint government-industry research and development program.

Recommendation from Initial Report dated September 9, 1996

5. Establish a joint government-industry research and development program. The Commission recommends the establishment of a new joint government-industry partnership whose mission will be to accelerate research and development to enhance the security of air travel.

This could be modeled on the Partnership For A New Generation Vehicle (PNGV), in which the federal government and auto makers are combining resources to develop automobiles with significantly enhanced fuel economy, safety, and reduced emissions. We propose to increase federal funding and to ask the private sector to contribute.

#### Status

The FAA is working with industry to develop agreements and award research grants.

Congress'increased the federal funding of R&D as required,

The FAA is moving in the direction of interacting more closely with industry, having set up advisory mechanisms such as the Aviation Security Advisory Committee; participating in individual Cooperative Research and Development Agreements with individual firms; giving grants to airlines and airports to conduct demonstrations and otherwise involve themselves in security technology development; entering into cost-sharing arrangements with firms to develop security technology.

#### Augmenting Recommendation

The FAA received additional funding and has aggressively accelerated systems to (1) improve screener performance, (2) reduce aircraft vulnerability, (3) screen cargo, and (4) to develop options for dealing with threats other than explosives. The FAA is encouraged to use the best technology available to solve security and safety challenges throughout the air transportation system.

3.17. Establish an interagency task force to assess the potential use of surface-to-air missiles against commercial aircraft.

Recommendation from Initial Report dated September 9, 1996

Assess the viability of anti-missile defense systems. Whether or not the explosion of TWA 800 turns out to have been due to a surface-to-air missile attack, as some eye-witness accounts suggest, missile attacks have downed passenger planes in other countries, and it is a risk that should be evaluated. The Commission will continue to analyze this problem in cooperation with the Department of Defense and other government agencies.

#### Status

#### DoD will convene an interagency task force to examine the threat to civil aircraft.

Initial analyses of both the missile threat and electronic systems available to counter it support a decision to take positive steps. Experts from the Department of Defense (DoD), the intelligence community, defense contractors and research scientists contributed to analysis of the viability of anti-missile defense systems for civil aviation.

#### Augmenting Recommendation

Within ninety days, the Department of Defense should convene an interagency task force including the DOT, the FAA and the intelligence community to address the potential threat from surface-to-air missiles against commercial aviation. Working with airport consortia, this task force should develop plans to provide increased surveillance, and, if necessary, the deployment of countermeasures. The task force should make recommendations to the DOT regarding the testing, evaluation and preparation for deployment of measures to protect civil aircraft against an increased threat from surface-to-air missiles.

Appropriate steps should be taken by the intelligence community and through international diplomacy to reduce the possibility that terrorists could obtain or use surface-to-air missiles. The State Department should study the expansion of conventional arms agreements to include man-portable surface-to-air missiles, and the U.S. Representative to the International Civil Aviation Organization (ICAO) should propose a new convention addressing these weapons.

### 3.18. Significantly expand the use of bomb-sniffing dogs.

# Recommendation from Initial Report dated September 9, 1996

**6** Significantly expand the use of bomb-sniffing dogs. Canines are used to detect explosives in many important areas, but only sparingly in airport security. The Commission is convinced that an increase in the number of well-trained dogs and handlers can make a significant and rapid improvement in security, and recommends the deployment of 114 additional teams.

#### Status

The FAA received funding for 114 new dog teams and training has begun.

#### Augmenting Recommendation

Additionally, the Commission recommends that ATF continue to work to develop government-wide standards for canine teams.

#### 3.19. Complement technology with automated passenger profiling.

### Recommendation from Initial Report dated September 9, 1996

8 • Complement technology with automated passenger profiling. Profiling can leverage an investment in technology and trained people. Based on information that is already in computer databases, passengers could be separated into a very large majority who present little or no risk, and a small minority who merit additional attention.

Such systems are employed successfully by other agencies, including the Customs Service. By utilizing this process Customs is better able to focus its resources and attention. As a result, many legitimate travelers never see a Customs agent anymore—and drug busts are way up.

The FAA and Northwest Airlines are developing an automated profiling system tailored to aviation security, and the Commission supports the continued development and implementation of such a system.

To improve and promote passenger profiling, the Commission recommends three steps. First, FBI, CIA, and ATF should evaluate and expand the research into known terrorists, hijackers, and bombers needed to develop the best possible profiling system. They should keep in mind that such a profile would be most useful to the airlines if it could be matched against automated passenger information which the airlines maintain.

Second, the FBI and CIA should develop a system that would allow important intelligence information on known or suspected terrorists to be used in passenger profiling without compromising the integrity of the intelligence or its sources. Similar systems have been developed to give environmental scientists access to sensitive data collected by satellites.

Third, the Commission will establish an advisory board on civil liberties questions that arise from the development and use of profiling systems.

### Status

### Profiling systems are being developed.

The Federal Aviation Administration (FAA) and Northwest Airlines are completing final programming changes to an automated profiling system. A tentative completion date for programming changes and implementation of Computer Assisted Passenger Screening (CAPS) on Northwest flights is April, 1997. Additional programming will begin for use of CAPS on other airline reservations systems, with a tentative completion date of August, 1997.

On January 17, 1997, a Civil Liberties Advisory Board met with Commissioners to discuss civil liberties concerns pertaining to profiling. The Board submitted recommendations to the Commission. (Appendix A)

### Augmen ting Recommendation

The Commission believes that profiling is one part of a comprehensive, layered security program. As with other measures, it becomes less necessary with the introduction of efficient screening technology. Based on readily-available information, passengers could be separated into a very large majority about whom we know enough to conclude that they present little or no risk, and a small minority about whom we do not know enough and who merit additional attention. The Customs Service uses this approach successfully to better focus its resources and attention. As a result, many legitimate travelers never see a customs agent anymore — and drug busts are way up.

The Commission supports the development and implementation of manual and automated profiling systems, such as the one under development by the FAA and Northwest Airlines. The Commission strongly believes the civil liberties that are so fundamentally American should not, and need not, be compromised by a profiling system. Consistent with this viewpoint, the Commission sought the counsel of leading experts in the civil liberties field. Those experts provided a series of recommendations found in Appendix A. The Commission recommends the following safeguards:

- 1. No profile should contain or be based on material of a constitutionally suspect nature e.g., rare, religion, national origin of U.S. citizens. The Commission recommends that the elements of a profiling system be developed in consultation with the Department of Justice and other appropriate experts to ensure that selection is not impermissibly based on national origin, racial, ethic, religious or gender characteristics.
- 2. Factors to be considered for elements of the profile should be based on measurable, verifiable data indicating that the factors chosen are reasonable predictors of risk, not stereotypes or generalizations. A relationship must be demonstrated between the factors chosen and the risk of illegal activity.

- 3. Passengers should be informed of airlines security procedures and of their right to avoid any search of their person or luggage by electing not to board the aircraft.
- 4. Searches arising from the use of an automated profiling system should be no more intrusive than sear&procedures that could be applied to all passengers. Procedures for searching the person or luggage of, or for questioning, a person who is selected by the automated profiling system should be premised on insuring respectful, non-stigmatizing, and efficient treatment of all passengers.
- 5. Neither the airlines nor thegovernment should maintain permanent databases on selectees. Reasonable restrictions on the maintenance of records and strict limitations on the dissemination of records should be developed.
- 6. Periodic independent reviews of profiling procedures should be made. The Commission considered whether an independent panel be appointed to monitor implementation and recommends at a minimum that the DOJ, in consultation with the DOT and FM, periodically review the profiling standards and create an outside panel should that, in their judgment, be necessary.
- 7. The Commission reiterates that profiling should last only until Explosive Detection Systems are reliable and fully deployed.
- 8. The Commission urges that these elements be embodied in FAA standards that must be strictly observed.
- 3.20. Certify screening companies and improve screener performance.

Recommendation from Initial Report dated September 9, 1996

9. Certify screening companies and improve screener performance. Better selection, training, and testing of the people who work at airport x-ray machines would result in a significant boost in security. The Commission recommends development of uniform performance standards for the selection, training, certification, and recertification of screening companies and their employees. The Commission further recommends that in developing these standards, the FAA give serious consideration to implementing the National Research Council recommendations. The Commission also recommends the purchase and deployment of SPEA RS, a computerized training and testing system.

Status

### The FAA has begun rulemaking procedures to require new certifications.

The Federal Aviation Administration is developing an Advanced Notice of Proposed Rulemaking (ANPRM) which will establish the requirement for screening companies to be certified in order to provide screening services to air carriers. The rule will include requirements to improve the training and testing of security screeners through development of uniform

performance standards for providing security screening services. Congress gave FAA authority to certify screening companies, but did not provide FAA authority to certify individual screeners. This Commission urges Congress to provide that additional authority.

### Augmenting Recommendation

The Commission also recommends that the purchase and deployment of SPEARS, a computerized training and testing system, be completed at all major airports by the end of 1997.

3.21. Aggressively test existing security systems.

Recommendation from Initial Report dated September 9, 1996

10. Aggressively test existing security systems. "Red team" (adversary) type testing should also be increased by the FAA, and incorporated as a regular part of airport security action plans. Frequent, sophisticated attempts by these red teams to find ways to dodge security measures are an important part of, finding weaknesses in the system and anticipating what sophisticated adversaries of our nation might attempt. An aggressive red team strategy will require significant increases in the number of FAA personnel currently assigned to these tasks.

### Status

The FAA is hiring 300 new special agents to test airport security.

3.22. Use the Customs Service to enhance security.

Recommendation from Initial Report dated September 9, 1996

11. Use the Customs Service to enhance security. The Customs Service has many responsibilities that are parallel to the FAA's in dealing with airlines and contraband. As a law enforcement agency, Customs has authorities and tools not available to the FAA. Further, it has developed successful partnership programs with the airlines. By using the Customs Service to complement the FAA, FBI, and other age&es, the Commission believes that aviation security would be significantly enhanced.

The Customs Service has thousands of agents currently stationed at US international airports. Customs has statutory authority to search people and cargo to stop contraband from coming in or going out of the country. Customs has arrangements with most airlines to receive automated passenger and cargo manifests. These arrangements could be adapted for use in security procedures. Customs, as a law enforcement agency, has access to automated law enforcement databases that could be an invaluable tool in fighting not just drugs but terrorism. The Commission recommends that Customs upgrade and adapt its computer systems to take on this additional responsibility.

### Status

The Customs Service is deploying 140 inspectors and investigators to critical airports.

The U.S. Customs Service is in the process of deploying 140 inspectors, intelligence analysts,

and criminal investigators (special agents) to critical airports, for aviation security; anti-terrorism efforts, and to perform increased searches of passengers, baggage, and cargo departing the United States. Customs is purchasing and deploying additional x-ray vans, tool trucks and radiation detector pagers at critical airports to assist in these searches.

The Customs Service and the Federal Aviation Administration (FAA) are working with an FAA contractor to study the technical issues associated with converting Customs' Automated Targeting System (ATS), which is designed for sea cargo analysis, to air cargo analysis. Although ATS is designed for contraband analysis and detection in the sea cargo environment, the plan would be to add anti-terrorism criteria to the system and convert it to an air cargo environment. The study should be completed in the Spring of 1997.

3.23. Give properly cleared airline and airport security personnel access to the classified information they need to know.

Recommendation from Initial Report dated September 9, 1996

12. Give properly cleared airline and airport security personnel access to the classified information they need to know. The red tape of classification is getting in the way of security. There are two problems that must be solved. The first involves intelligence information about specific terrorist threats. The CIA or FBI pass the threat information to the FAA, which in turn alerts the airlines. But the information gets progressively "sanitized" to avoid jeopardizing the source. Often, airlines are just told what to do but not why they are to do it. If airlines were provided more information about the threat, they could help design more effective responses.

Corporate personnel are often cleared to know the most secret information when national security is at stake. Detense contractors with access to highly classified intelligence information are far from rare. For that matter, airline personnel were cleared to know highly classified information during Operation Desert Storm, when commercial aircraft transported 80% of our troops to Saudi Arabia.

The other classified information problem involves the airport vulnerability assessments in recommendation number 2. These assessments become classified information if they conclude that a high degree of vulnerability exists. Some people responsible for security at the airports are not cleared to receive classified information.

The Commission recommends that the FAA arrange for appropriate airline and airport security personnel to be cleared to address this problem.

### Status

### The FAA is arranging for adequate clearance levels at airports and airlines.

The FAA has agreed to collaborate more closely with airlines and airports in developing responses to threat information, and has agreed to disseminate vulnerability assessments to properly cleared officials.

### 3.24. Begin implementation of full bag-passenger match.

Recommendation from Initial Report dated September 9, 1996

13. Begin implementation of full bag-passenger match. Matching bags to passengers ensures that the baggage of anyone who does not board the plane is removed. Full bag match ensures that no unaccompanied bag remains on board a flight.

Manual and automated systems to conduct full bag match have been employed in international aviation for several years, but need additional work to ensure they can be phased into domestic airline operations. The Commission recommends implementing full bag match at selected airports, including at least one hub, within sixty days to determine the best means of implementing the process system-wide.

### Status

The Commission remains committed to baggage match as a component of a comprehensive, layered security program aimed at keeping bombs and explosive devices off airlines. New technologies are available which facilitate positive and automated identification of the bag as it is tracked through the system. Automatic bag tracking systems can also facilitate the removal of bags from aircraft if required by security concerns. The Commission feels that these technologies can be combined with the development of a passenger manifest to implement a passenger-bag matching system as one component of a layered approach to aviation security.

The Commission urges the industry and the FAA to work together to hasten the development of sophisticated technology for determining the presence of explosives in checked baggage. Until such machines are widely available, the Commission believes that bag match, initially based on profiling, should be implemented no later than December 31, 1997. The Commission's recommendation is consistent with that of the Baseline Working Group's recommendation in this contentious and difficult area.

By that date, the bags of those selected either at random or through the use of automated profiling must either be screened or matched to a boarded passenger. No unaccompanied bag should be transported on a passenger aircraft unless (1) it has been screened by a screening method that meets the FAA standard, or (2) it belongs to a passenger who at the time of check in was neither randomly selected for security review nor selected by the profile for further review, This approach is the most effective methodology available now. It would allow the aviation industry to remove the unaccompanied bag or bags which represent the greatest threat.

## 3.25. Provide more compassionate and effective assistance to families of victims.

### Recommendation from Initial Report dated September 9, 1996

14. Providing more compassionate and effective assistance to families of victims. The tragedy of losing a loved one in an aviation disaster can be unnecessarily and cruelly compounded by disjointed or incomplete information in the aftermath of the incident. At the Commission's urging, the President is directing the National Transportation Safety Board to take the lead in coordinating provision of services to families of victims. The NTSB will work with the Departments of State, Defense, Transportation, Health and Human Services, the Federal Emergency Management Agency, and private organizations like the Red Cross.

### Status

### The NTSB was given responsibility to coordinate response.

On October 9, 1996, Congress passed the Aviation Family Disaster Act of 1996 giving the National Transportation Safety Board (NTSB) the responsibility for aiding families of aircraft accident victims and coordinating the federal response to major domestic aviation accidents.

Since the signing of the law, NTSB has completed the initial phase of coordinating the federal response to a major domestic aviation accident. The NTSB is in the process of finalizing existing interim Memoranda of Understanding with the Department of State, Department of Defense, Department of Health and Human Services, Department of Justice, Department of Transportation, Federal Emergency Management Agency, and the American Red Cross (ARC). The NTSB has been vigorously assisting the airline industry to develop a model plan to address the needs of aviation disaster victims and their families. Letters from Chairman Jim Hall and DOT Secretary Federico Peña went out in November, 1996, to airlines informing them of their responsibility for producing an emergency response plan as specified in section 703 of the Aviation Disaster Family Assistance Act of 1996.

An interim federal response has been developed by the NTSB that assigns responsibilities to the airlines and participating federal agencies. The ARC will be responsible for family care and mental health; the Department of Health and Human Services (HHS) will be responsible for identification and preparation of human remains (with support by the Department of Defense, as needed); and the Department of State will assist the airlines and NTSB when foreign passengers are involved in an aviation accident. The Federal Emergency Management Agency will provide the NTSB with communications equipment and additional public affairs personnel. If the aviation disaster is officially determined to be a criminal act, the Department of Justice will provide information to families on entitlements and benefits under the Victims of Crime Act. Many elements of the interim NTSB pl an were successfully implemented and tested following the United Express Flight 592515926 accident in Quincy, Illinois on November 19, 1996.

# CHAPTER FOUR: RESPONDING TO AVIATION DISASTERS

"I am testifying today to give a sense of purpose to the death of my daughter and the others who lost their lives on TWA flight 800. I believe that by identifying areas in need of improvement, we can successfully generate a change in policy and action for the future. We will create a living memorial to their death."

Aurlie Becker 17

The Commission's recommendations included setting a goal of reducing the rate of fatal accidents by a factor of five over the next ten years, and outlined a course of action that would help achieve that goal. Additionally, the Commission has recommended specific steps to reduce the threat of terrorism against commercial aircraft. However, it must be recognized that, in spite of the strongest efforts of all involved, disasters may still occur. While government and industry must do everything possible to prevent them, they must also be prepared to respond quickly and compassionately when one does take place. The tragedy of losing a loved one in a plane crash can be cruelly and needlessly compounded by an uncoordinated, ineffective, or uninformed response to family members.

The infrequency of commercial aviation accidents has complicated the response to such disasters. For example, when TWA Flight 800 crashed on July 17, 1996, it had been over twenty years since that airline's last fatal accident. Most crashes simply overwhelm state and local response teams, and take a tremendous toll on airline employees, who must immediately begin addressing the concerns of family members at the same time that they are coping with the loss of their own colleagues.

Responding to the frustrations and complaints of family members over the treatment they received after accidents, President Clinton signed an executive memorandum giving the National Transportation Safety Board (NTSB) the responsibility for coordinating federal services to families after aviation disasters .<sup>18</sup> Congress subsequently passed legislation further expanding and clarifying the NTSB's new responsibilities.19

Since its creation in 1967, the NTSB is the one entity that has been on the site of every transportation disaster. The Commission applauds the designation of the NTSB as the coordinating agency after aviation disasters, and commends the agency for its diligence in carrying out its new responsibilities.

### RECOMMENDA

IONS

# 4.1. The National Transportation Safety Board (NTSB) should finalize by April, 1997, its coordinated federal response plan to aviation disasters, and Congress should provide the NTSB with increased funding to address its new responsibilities.

The NTSB has developed an interim plan for a coordinated federal response to aviation disasters, which should be finalized as quickly as possible. That interim plan was put to the test in two recent disasters involving commuter aircraft, and resulted in clear improvements in service. The Commission commends the work of the NTSB and b & leves that only through a coordinated effort, and establishment of a standard protocol, can effective support be provided to local governments and airlines to meet the needs of family members. The Commission recommends that Congress provide such additional funds necessary to allow the NTSB to carry out the new responsibilities described in the Aviation Disaster Family Assistance Act of 1996.

## 4.2. The Department of Transportation should coordinate the development of plans for responding to aviation disasters involving civilians on government aircraft.

The families of civilians killed while traveling on government aircraft face the same traumas and challenges as those whose loved ones were killed on commercial flights. However, the response to such disasters is covered under different laws and procedures. Those differences, and a clear statement regarding their rights and benefits in the event of an aviation disaster, should be provided to passengers on government aircraft prior to boarding. The Commission believes that it is essential that those families receive assistance comparable to that provided after commercial disasters through the enhanced role of the NTSB. The Commission urges the DOT to work with the NTSB, DoD, other agencies, and family members to develop plans to accomplish that goal by September 1997 and to evaluate the need to revise existing laws and regulations governing the rights and benefits of civilians on government aircraft.

# 4.3. The Department of Transportation and the NTSB should implement key provisions of the Aviation Disaster Family Assistance Act of 1996 by March 31, 1997.

This Act authorized the formation of a task force to study the need for modifications to laws or regulations that would result in improvements to the treatment of family members of victims of aviation disasters. This task force will consider, among other things, issues relating to treatment of families by the media and legal community. Additionally, the Commission urges the task force to consider the development of uniform guidelines for notification, autopsies and DNA testing and other issues raised by family members, including rights and treatment of foreign

citizens and non-traditional families, securing crash sites, availability of cockpit voice recorder transcripts, and the composition of accident investigation teams. The Commission expects that establishment of the task force will be one of the first priorities for the new Secretary of Transportation, and that it will be accomplished without delay.

In November 1996, the Chairman of the NTSB and the Secretary of Transportation (DOT) sent a joint letter to airlines to underscore the importance of this Act and to advise on the responsibilities of airlines to formulate disaster response plans. Those plans are due to the DOT and the NTSB by early April 1997.

In addition, the NTSB should work with the State Department through Memoranda of Understanding or other mechanisms to provide direct services to the families of U.S. citizens who are victims of disasters on U.S. carriers abroad.

# 4.4. The United States Government should ensure that family members of victims of international aviation disasters receive just compensation and equitable treatment through the application of federal laws and international treaties.

Certain statutes and international treaties, established over 50 years ago, historically have not provided equitable treatment for families of passengers involved in international aviation disasters. Specifically, the Death on the High Seas Act of 1920 (Act) and the Warsaw Convention of 1929 (Convention), although designed to aid families of victims of maritime and aviation disasters, have inhibited the ability of family members of international aviation disasters to obtain fair compensation. A recent agreement by U.S. airlines waived the liability of the Warsaw Convention. However, the Death on the High Seas Act still limits recoveries available after certain aviation disasters.

Congress passed the Justice for Victims of Terrorism Act of 1996 as a first step to remedy this situation. The Commission urges the Administration and the Congress to take additional steps necessary to ensure fairer and more equitable treatment of families of victims of international aviation disasters, including the establishment of an advisory board, pursuant to section 211 of the Aviation Security Improvement Act of 1990, to develop a plan for equitable compensation of victims of aviation disasters.

### 4.5 Provisions should be made to ensure the availability of funding for extraordinary costs associated with accident response.

The NTSB and other federal, state, and local government agencies can incur significant costs in the course of an accident response. Those costs cannot be anticipated nor budgeted for in advance, and their recovery has been made on an ad hoc basis, further complicating an already difficult situation. The Commission urges the Administration and Congress to address this issue, through the consideration of measures such as requirements for increased insurance coverage for companies involved in air transportation.

# 4.6. Federal agencies should establish peer support programs to assist rescue, investigative, law enforcement, counsel&g and other personnel involved in aviation disaster response.

The men and women who respond on the scene of aviation disasters can suffer from considerable trauma and emotional impact. Specially trained peer support counselors, who are themselves investigators who have had similar experiences, should be dispatched to the scene of a disaster to help those involved in the response effort. The Bureau of Alcohol, Tobacco, and Firearms (ATF), because of its frequent investigations of arson and bombings, has developed such a program for its agents. The NTSB, the FAA, and other agencies should work with the ATF to develop programs for their personnel within existing budgets.

### **CONCLUSION**

The Commission believes that each of its recommendations is achievable. But, the Commission has no authority to implement its recommendations. That responsibility lies with government and industry. Many of the proposals will require additional funding. Some of them will require legislation. Each of them requires sustained attention. We now urge the President to make these recommendations his own. We urge Congress to provide the necessary legislation and funding. We urge the incoming leadership of the DOT and the FAA to make fulfillment of these recommendations a cornerstone of their work. We urge the commercial aviation industry to take up the technical and organizational challenges. We urge the thousands of private pilots across the nation to convert their enthusiasm for flying into a commitment to make the changes necessary to enhance safety for everyone flying. And, we urge the American people to demand that this country take the steps now to do what is needed.

By virtually any measure, the aviation system in the United States is the best in the world. But, every system can be improved: made safer, more secure, and more efficient. Every crash is a stark reminder of that reality.

The world is changing, and so, too, must our aviation policies and practices. They should challenge everyone involved in aviation to improve. They should serve as the model for the rest of the world, and lead to improvements that will make passengers safer, regardless of where they board their flight.

There are few areas in which the public so uniformly believes that government should play a strong role as in aviation safety and security. Aviation is an area over which the average person can exert little control; therefore, it becomes government's responsibility to work with industry to make sure that Americans enjoy the highest levels of safety and security when flying. Problems in these areas contribute to an erosion of public faith in aviation, and in government itself. The Commission has laid out an aggressive agenda to help address those concerns, and believes that the implementation of this course of action must be the top priority for all those involved in aviation.

The Commission expresses its appreciation to: President Clinton, for his heartfelt interest and his strong support for this work; to the 104th Congress, for its decisive action in response to the initial report; to the men and women in numerous government agencies, for their work in identifying issues and in implementing recommendations; and to the representatives of airlines, airports, manufacturers, labor, and general aviation who provided invaluable input.

Finally, and especially, the Commission thanks the families of those who have lost loved ones in crashes for their commitment and their insights, and for ensuring that the Commission always kept its focus on the ultimate goals.

## **ENDNOTES**

- 1. Air Transport Association, 1996 Annual Report; Department of Transportation.
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- 3. FAA Aviation Forecasts, 1996-2007. March 1996; and National Transportation Statistics, 1996. USDOT.
- 4. State of the Union Address, January 23, 1996.
- 5. Executive Order 13015. August 22, 1996.
- 6. Remarks to the Aero Club of Washington. January 22, 1997.
- 7. Robert Crandall at George Washington University conference, as reported in Associated Press, January 1997.
- 8. Statement to International Conference on Aviation Safety and Security, George Washington University, January 1997.
- 9. "Statistical Summary of Commercial Jet Aircraft Accidents: Worldwide Operations 1959-1995," Boeing Commercial Aircraft Group, April 1996.
- 10. The Boeing Company, April 1996.
- 11. Briefing by Jack McGuire of Boeing Commercial Airplane Group to Commissioner Loh. November 19, 1996.
- 12. Statement before the White House Commission on Aviation Safety and Security December 5, 1996.
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- 14. "Aviation Acquisition A Comprehensive Strategy is Needed for Cultural Change at FAA." GAO/RCED-96-159. August 1996
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- 16. Remarks at the presentation of the Initial Recommendations of the Commission, September 9, 1996.
- 17. Testimony to the Commission on Aviation Safety and Security. Washington, DC, November 20, 1996.
- 18. Executive Memorandum. September 9, 1996
- 19. P.L. 104-264. October 9, 1996

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### APPENDIX A

# RECOMMENDATIONS OF THE MEMBERS OF THE CIVIL LIBERTIES ADVISORY PANEL TO THE WHITE HOUSE COMMISSION ON AVIATION SAFETY AND SECURITY

The members of the civil liberties advisory panel were invited to meet with the Commission on January 17, 1997, to pose questions and offer their thoughts on the draft proposal to "implement an automated profiling system for all passengers on all flights." Draft Proposal 11.8. In the absence of any specific information about the profiling system that is being considered, our individual comments at the meeting, and our collective statements set forth below are, of necessity, general in nature. In addition, those comments and these recommendations are limited to the general proposal to finalize and deploy an automated profiling system on a system-wide basis. They do not address the civil liberties implications of other elements of Draft Proposal II.8 (dealing with "watch lists," "real time" feedback to airlines, and the creation of a permanent consortium for sharing strategic aviation intelligence), or any other proposals considered by the Commission.

In light of the serious civil liberties issues raised by any profiling system, we urge the Commission and the President to consider carefully whether any profiling system is appropriate.

Should the Commission decide to recommend an automated profiling system, we urge the Commission to include the following principles among its recommendations (without suggesting that this exhausts the possible civil liberties concerns):

- 1. Any profile should not contain or be based on material of a constitutionally suspect nature e.g., race, religion, national origin of U.S. citizens and should be consistent with the constitutional right of freedom to travel.
- 2. Factors to be considered for elements of the profile should be based on measurable, verifiable data indicating that the factors chosen are reasonable predictors of risk, not stereotypes or generalizations. Efforts should be made to avoid using characteristics that impose a disproportionate burden of inconvenience, embarrassment, or invasion of privacy of members of minority racial, religious or ethnic groups. Law enforcement data should be used with caution and only to the extent that the data used is a reasonable predictor of risk, because these data may be incomplete or inaccurate and may not be directly relevant to the goal of enhancing aviation security.
- 3. Passengers should be informed of the airlines' security procedures and of their right to avoid any search of their person or luggage by electing not to board the aircraft. When the use of an automated profiling system leads to a request to open luggage or to submit to a personal search, an explicit reminder of the option not to board the aircraft should be given.

- 4. Searches arising from the use of an automated profiling system should be no more intrusive than search procedures that could be applied to all passengers. For example, imaging devices which project an image of a passenger's body underneath his or her clothing should not be used on a passenger solely because the passenger fits the profile or has been selected at random. The procedures applied to those who fit the profile should also be applied on a random basis to some percentage of passengers who do not fit the profile.
- 5. Procedures for searching the person or luggage of, or for questioning, a person who is selected by the automated profiling system should be premised on insuring respectful, nonstigmatizing, and efficient treatment of all passengers.
- 6. The panel is concerned that the maintenance or dissemination of records compiled in connection with an automated profiling system may invade the privacy of passengers.
  Reasonable restrictions on the maintenance of records and strict limitations on the dissemination of records should be developed. To the extent that records are maintained, there should be means for passengers to challenge the accuracy of personally identifiable information.
- 7. An independent panel should be appointed and given appropriate authority to monitor implementation of airport security procedures to insure that they do not unduly limit the exercise of civil liberties of the traveling public and do not unduly require augmented searches of the person or baggage of any particular group or groups.
- 8. Any profiling system should have a sunset provision which requires it to be terminated by a date certain unless an affirmative decision is made to continue use of the system. The assessment of the system should take account of its efficacy and necessity in light of improvements in detection technology as well as the civil liberties impact of the program.
- 9. Air carrier security plans submitted for approval by the Federal Aviation Administration to implement an automated profiling system should be consistent with these guidelines.

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### APPENDIX B

## RECOMMENDATIONS TO BE IMPLEMENTED BY THE FAA

Rec#	Recommendation
1.1	Government and industry should establish a national goal to reduce the fatal accident rate of aviation by a factor of five within ten years and conduct safety research to support that goal.
1.2	The FAA should develop standards for continuous safety improvement, and target its regulatory resources based on performance against those standards.
1.3	The DOT and the FAA should be more vigorous in the application of high standards for certification of aviation businesses.
1.4	The Federal Aviation Regulations $(FARs)$ should be simplified and, as appropriate, rewritten as plain English, performance-based regulations.
1.6	Government and industry aviation safety research should focus on human factors and training.
1.8	The FAA should work with the aviation community to develop and protect the integrity of standard safety databases that can be shared in accident prevention programs.
1.9	In cooperation with airlines and manufacturers, the FAA's Aging Aircraft program should be expanded to cover non-structural systems.
1.10	The FM should develop better quantitative models and analytic techniques to inform management decision-making.
2.1	The FAA should develop a revised NAS modernization plan within six months that will set a goal of being fully operational nationwide by the year 2005; and the Congress, the Administration, and users should develop innovative means of financing this acceleration.
2.2	The FAA should develop plans to ensure that operational and airport capacity needs are integrated into the modernization of the NAS.
2.3	The FAA should explore innovative means to accelerate the installation of advanced avionics in general aviation aircraft.
2.4	The United States Government should ensure the accuracy, availability and reliability of the GPS system to accelerate its use in NAS modernization and to encourage its acceptance as an international standard for aviation.
2.6	The FAA should identify and justify the frequency spectrum necessary for the transition to a modernized air traffic control system.

## APPENDIX B RECOMMENDATIONS TO BE IMPLEMENTED BY THE FAA (continued)

Rec#	Recommendation
3.1	The federal government should consider aviation security as a national security issue, and provide funding for capital improvements.
3.4	The FAA should implement a comprehensive plan to address the threat of explosives and other threat objects in cargo and work with industry to develop new initiatives in this area.
3.5	The FAA should establish a security system that will provide a high level of protection for all aviation information systems.
3.7	The FM should work with airlines and airport consortia to ensure that all passengers are positively identified and complete security procedures before they board aircraft.
3.10	The FAA should work with industry to develop a national program to increase the professionalism of the aviation security workforce.
3.11	Establish consortia at all commercial airports to implement enhancements to aviation safety and security.
3.14	Deploy existing technology.
3.15	Establish a joint government-industry research and development program.
3.16	Establish an interagency task force to assess the potential use of surface-to-air missiles against commercial aircraft.
3.18	Complement technology with automated passenger profiling.
3.19	Certify screening companies and improve screener performance.
3.21	Use the Customs Service to enhance security.
3.22	Give properly cleared airline and airport security personnel access to the classified information they need to know.
4.6	Federal agencies should establish peer support programs to assist rescue, investigative, law enforcement, counseling and other personnel involved in aviation disaster response.

### APPENDIX C

# WHITE HOUSE COMMISSION ON AVIATION SAFETY AND SECURITY MEMBERSHIP

**Lieutenant General James A. Abrahamson, USAF (Ret),** is the founder of International Air Safety, LLC., and Air Safety Consultants, Inc. He has a global reputation in the fields of technical program management, international business, and Air Traffic Management. He served as Chairman of the Board of Oracle Corporation and President of Hughes' Transportation Sector.

**Jesse (Jack) Beauchamp.** B.S., California Institute of Technology, 1964; Ph.D. Harvard University, 1967; Professor of Chemistry, California Institute of Technology, 1967 Present; member, National Academy of Sciences. He has served on numerous scientific advisory committees and panels of the NRC and the Department of Defense. He has expertise in the identification of chemical species using a wide range of instrumental methods. His current research activities include the development of new methods for the detection of explosives.

In **1973 Dr. Franklin R. Chang-Diaz** became involved in the United States' controlled fusion program and in the design and operation of fusion reactors. As a visiting scientist with the M.I.T. Plasma Fusion Center from October 1983 to December 1993, he led the plasma propulsion program there to develop this technology for future human missions to Mars. In December 1993, he was appointed Director of the Advanced Space Propulsion Laboratory at the NASA Johnson Space Center. Dr. Chang-Diaz became an astronaut in August 1981 and is a veteran of five space flights. He has logged over 1,033 hours in space. Dr. Chang-Diaz received a bachelor of science degree in mechanical engineering from the University of Connecticut in 1973 and a doctorate in applied plasma physics from the Massachusetts Institute of Technology in 1977.

Antonia Handler Chayes is a Senior Advisor and Board Member of Conflict Management Group (CMG), a non-profit conflict resolution consulting firm, and a Senior Consultant to JAMS/Endispute, a firm that provides cost-effective alternatives to traditional litigation.

Ms. Chayes is also an Adjunct Lecturer at the Kennedy School of Government at Harvard Law School. Previously she served as Assistant Secretary and as Under Secretary of the United States Air Force. Ms. Chayes served as a Commissioner with the Commission on Roles and Missions of the United States Armed Forces and the DOD-CIA Joint Security Commission. She has been a director of United Technologies since 1981, and is a member of the American Law Institute and the Council on Foreign Relations. Ms. Chayes serves on Advisory Boards of Columbia University School for International and Public Affairs and the Center for Preventive Action at the Council on Foreign Relations.

**William T. Coleman, Jr. -** Senior Partner, O'Melveny & Myers; former U.S. Secretary of Transportation in the Ford Administration; Chairman, NAACP Legal Defense and Educational Fund, Inc.; Officer of the French Legion of Honor; Recipient of the Presidential Medal of Freedom conferred by President Clinton in September, 1995.

M. Victoria Cummock is President of Families of Pan Am 103/Lockerbie and a member of the FAA Security Baseline Work Group. Her husband, John Binning Cummock was killed aboard Pan Am Flight 103 over Lockerbie, Scotland on December 21, 1988. As a disaster victims advocate, she has worked with hundreds of victims families including Oklahoma City, Valujet 592 and TWA 800. Her work in Disaster Crisis Management, Aviation Security and Counter-terrorism, has brought about many legislative changes including the "1990 Aviation Security Improvement Act", the "1996 Iran-Libyan Sanctions Act", the "1996 Anti-terrorism and Effective Death Penalty Act" and the "Aviation Disaster Family Assistance Act of 1996."

**John M. Deutch,** professor at Massachusetts Institute of Technology (MIT); government assignments include former Director of the Central Intelligence Agency, Deputy Secretary of Defense, Under Secretary of Defense for Acquisition and Technology, Director of Energy Research and Acting Assistant Secretary for Energy Technology at the Department of Energy. Born in Brussels, Belgium, Mr. Deutch became a US citizen in 1945; B.A. in history and economics from Amherst College, a B.S. in chemical engineering and a Ph.D. in physical chemistry from MIT; married, three sons.

**Kathleen Flynn** is the mother of four children and is an educator by profession. She is currently the Director of Development at the Academy of Saint Elizabeth, Convent Station NJ. Mrs. Flynn graduated from Marymount College in Tarrytown, NY with a Bachelor of Arts degree in Political Science and has done graduate studies at the University of Rochester. An anti-terrorism/airport security and safety advocate, Mrs. Flynn's activism was triggered by the murder of her oldest child on Pan Am Flight 103 over Lockerbie, Scotland on December 21, 1988. Mrs. Flynn is committed to the fight for justice and truth in the bombing of Flight 103 and is dedicated to: increased safety/security for all airline passengers and the obliteration of terrorism throughout the world.

**Louis J. Freeh** served as an FBI Special Agent from 1975 to 1981 in the New York City Field Office and at FBI Headquarters in Washington, DC. In 1981, he joined the U.S. Attorney's Office for the Southern District of New York as an Assistant U.S. Attorney. Subsequently, he held positions there as Chief of the Organized Crime Unit, Deputy U.S. Attorney, and Associate U.S. Attorney. In July 1991, former President George Bush appointed Director Freeh a United States District Court Judge for the Southern District of New York. He was serving in this position when nominated to be Director of the FBI by President Bill Clinton on July 20, 1993. He was confirmed by the U.S. Senate on August 6, 1993, and was sworn in as Director of the FBI on September 1, 1993.

**James Evan Hall** has been Chairman of the National Transportation Safety Board since June 1994. In June 1996, he was presented an Aviation Laurel by Aviation Week and Space Technology magazine for his efforts to resolve what happened to USAir flight 427. Mr. Hall chaired the Board's hearings into the flight 427 disaster, the 1994 runway collision in St. Louis, and air safety in Alaska.

**Brian Jenkins** is Deputy Chairman of Kroll Associates, an international investigative and consulting firm, and one of the world's leading authorities on international terrorism. From 1972 to 1989 he directed RAND Corporation's research on political violence and international crime and was also Chairman of RAND's Political Science Department for four years.

As Under Secretary of the Treasury for Enforcement, **Raymond W. Kelly** supervises Treasury's law enforcement bureaus, including the Customs Service, the Secret Service, the Bureau of Alcohol, Tobacco and Firearms, the Federal Law Enforcement Training Center, FinCEN, and the IRS Criminal Investigation Division. Mr. Kelly has over 30 years of law enforcement experience, including serving as New York City Police Commissioner during the World Trade Center bombing investigation. As the Director of the International Police Monitors of the Multinational Force, Mr. Kelly helped establish an interim security force in Haiti. Additionally, Mr. Kelly is the United States' representative on the Executive Committee of Interpol.

General John Michael Loh, USAF (retired) concluded his thirty five year Air Force career in 1995 as the first commander of Air Combat Command, the command responsible for providing all U.S. based Air Force combat and support forces for action worldwide. He has extensive experience leading large organizations toward greater levels of quality and productivity improvement and his organization was cited by the Vice-President as the model for reinventing government and understanding the principles of quality improvement. General Loh is a consultant for defense companies and specializes in strategic requirements planning, business development, proposal preparation and evaluation, program management support, quality improvement, and congressional relations. General Loh is a graduate of the U.S. Air Force Academy and holds a Master's degree in aero engineering from M.I.T.

**Bradford Parkinson** of Stanford University, the original Department of Defense (DoD) Global Positioning System (GPS) Program Director, has a broad background in management, modern control, astrodynamics, simulation, avionics, and navigation. He manages the NASA/Stanford Relativity Mission, Gravity Probe B (GPB) and also directs Stanford research on innovative uses of GPS. He is Chair of the NASA Advisory Council and a member of the Presidential Commission on Air Safety and Security, Dr. Parkinson is a member of the AIAA, AAS, IEEE, ION, and Royal Institute of Navigation (RION). He has received many distinguished awards and authored more than 80 papers on Guidance, Navigation and Control. He is a fellow of the AIAA and the RION, and a member of the National Academy of Engineering.

**Federico** Peña is currently the 12th US Secretary of Transportation. From 1983-91, Secretary Peña was Mayor of Denver leading an urban and economic renaissance. He also has served as a Colorado legislator and a civil rights lawyer. Mr. Peña did his undergraduate work at the University of Texas where he also received his law degree. Born in Laredo, Texas, in 1947, Secretary Peña is the third of six children of a cotton broker. He and his wife, world-class marathon runner and attorney Ellen Hart-Peña, live with their two children in Northern Virginia.

### Franklin D. Raines is the Director of the Office of Management and Budget

Patrick A. Shea is President of Patrick A. Shea, PC. He currently practices law in Utah and Washington, DC and is an Adjunct Professor of Political Science at the University of Utah. He serves as President of the Franklin Quest Championship and is a member of the Board of Advisors, Huntsman Center for Global Competition and Innovation, Wharton School of Business, University of Pennsylvania. He served as Counsel to the U.S. Senate Foreign Relations Committee and as Assistant Staff Director to the U.S. Senate Intelligence Committee. He is past President of the Stanford Alumni Association. He is past Chair of the Utah Democratic Party and Chair of the Credentials Committee to the Democratic National Committee.

**Laura D'Andrea Tyson** is the former Chair of the Council of Economic Advisors.

Carl W. Vogt - Senior partner, Fulbright & Jaworski, L.L.P.; Chairman of the National Transportation Safety Board (1992-94); member, FAA Aviation System Capacity Advisory Committee (1990) and Ninety Day Safety Review Committee (1996); Governor, Flight Safety Foundation; Fellow, Royal Aeronautical Society; former Marine, carrier based, jet fighter pilot; licensed commercial pilot.

Born in Baltimore, Maryland, **George H. Wiliams**, a retired real estate broker, served in the Korean War from 1951-52 as a Scout-sniper in the US Marine Corps. Mr. Williams' son and only child, George Watterson Williams was killed on Pan Am Flight 103 over Lockerbie, Scotland on Dec 21, 1988. Since that day, Mr. Williams has dedicated his life to the cause of justice for all victims of terrorism. He has served on the Board and is now President of The Victims of Pan Am 103, Inc., a proactive group instrumental in the passage of the Airline Safety and Security Improvement Act of 1990 and several subsequent anti-terrorist legislative initiatives.

### APPENDIX D

# EXECUTIVE ORDER 13015 OF AUGUST 22, 1996 WHITE HOUSE COMMISSION ON AVIATION SAFETY AND SECURITY

By the authority vested in me as President by the constitution and the laws of the United States, including section 301 of title 3, United States Code, it is hereby ordered as follows:

### Section 1. Establishment.

There is established the White House Commission on Aviation Safety and Security (the "Commission"). The Commission shall be of not more than 25 members, to be appointed by the President from the public and private sectors, each of whom shall have experience or expertise in some aspect of safety or security. The Vice President shall serve as Chair of the Commission.

### Section 2. Functions.

- (a) The Commission shall advise the President on matters involving aviation safety and security, including air traffic control.
- (b) The Commission shall develop and recommend to the President a strategy designed to improve aviation safety and security, both domestically and internationally.
- (c) The Chair may, from time to time, invite experts to submit information to the Commission; hold hearings on relevant issues; and form committees and teams to assist the Commission in accomplishing its objectives and duties, which may include individuals other than members of the Commission.

### Section 3. Administration.

- (a) The heads of executive departments and agencies shall, to the extent permitted by law, provide the Commission such information with respect to aviation safety and security as the Commission requires to fulfill its functions.
- (b) The Commission shall be supported, both administratively and financially, by the Department of Transportation and such other sources (including other Federal agencies) as may lawfully contribute to Commission activities.

### Section 4. General.

- (a) I have determined that the Commission shall be established in compliance with the Federal Advisory Committee Act, as amended (S.U.S.C. App.2). Notwithstanding any other Executive Order, the functions of the President under the Federal Advisory Committee Act, as amended, shall be performed by the Secretary of Transportation in accordance with the guidelines and procedures established by the Administrator of General Services, except that of reporting to the Congress.
- (b) The Commission shall exist for a period of 6 months from the date of this order, unless extended by the President.

William Jefferson Clinton The White House August 22, 1996

(FR Doc. 96-21996)

### APPENDIX **D**

# THE WHITE HOUSE COMMISSION ON AVIATION SAFETY AND SECURITY CHARTER

#### I. Establishment:

This charter establishes the White House Commission On Aviation Safety and Security (Commission), as directed by the President on July 25, 1996.

### II. Objectives, Scope of Activities and Description of Duties:

**A.** The Commission shall function solely as an advisory body. Its duties shall include a comprehensive study of the current state of, and measures to improve, civil aviation safety and security (including air traffic control) with respect to both domestic and international aviation. This study shall result in various reports which may include recommendations for such administrative, judicial and legislative actions as the Commission deems advisable.

### B. The Commission shall have the following powers:

- 1. For purposes of carrying out its duties, the Commission may hold such hearings and sit and act at such times and places the Commission may deem advisable.
- The Commission may form committees and teams to assist it in accomplishing its objectives and duties. These committees and teams may include individuals other than members of the Commission.

### III. Commission Membership:

The Commission shall consist of not more than twenty-five individuals, who shall be appointed by the President and whose terms of office shall be for the term of the Commission:

- **A.** The Vice President shall serve as the Chair of the Commission:
- **B.** All other members shall be appointed by the President to assure a balanced representation among those persons who have experience or expertise in the matters to be addressed by the Commission.
- C. Private sector members of the Commission shall be appointed to serve as representatives of various sectors, including the intelligence, technology, and aviation communities, and, thus, are not subject to the conflict of interest restrictions of 18 U.S.C. §§ 202-09.
- **D.** A vacancy in the Commission shall not affect its powers.

### **IV. Duration:**

The Commission shall exist for a period of six months, unless extended by the Chair prior to the aforementioned date.

### V. Official to Whom the Commission Reports:

The Commission will report (through its Chair) to the President of the United States.

### VI. Agency Responsible for Providing Support for the Commission:

The Department of Transportation is the official sponsor of the Commission, and the Secretary of Transportation (or his designee) shall serve as the Commission's Designated Federal Official. Each department, agency, or instrumentality of the executive branch of the Federal Government (including edpn ed agencies) shall, upon the request of the Chair, furnish the Commission such information and support, without reimbursement, as the Commission deems necessary to carry out its functions.

### VII. Estimated Annual Operating Costs:

The annual operating costs for the Commission are estimated to be approximately \$250,000 and five (5) person-years.

### VIII. Estimated Number and Frequency of Meetings:

The Commission (and any committees and teams serving the Commission) shall meet at such times as the Chair, the Designated Federal Official, or their designee may direct. The total number of meetings during the six months of operation will be approximately ten.

#### IX. Date:

This charter is filed on August 21, 1996.

## APPENDIX E

# AGENDAS FOR PUBLIC HEARINGS HELD BY THE COMMISSION

### WHITE HOUSE COMMISSION HEARING ON AVIATION SECURITY

Department of Commerce/Auditorium (enter on l4th Street-NW, between Pennsylvania and Constitution Avenues) September 5, 1996

12:00 pm - 12:15 pm	Opening Remarks by Vice President Al Gore
12:15 pm - 12:25 pm	Remarks by Victoria Cummock Remarks by Kathleen Flynn
	Remarks by George Williams
12:25 pm - 12:55 pm	Presentations by Public Witnesses Carol Hallet, Air Transport Association of America
	Richard Marchi, Airports Council International/American Association of Airport Executives
	J. Randolph Babbit, Airline Pilots Association
	Patricia Friend, Association of Flight Attendants Walter Coleman, Regional Airlines Association
	Gregory T. Nojeim, American Civil Liberties Union
12:55 pm <b>-</b> 1:00 pm	Closing Remarks by Vice President Gore

### WHITE HOUSE COMMISSION HEARING ON FAMILIES OF VICTIMS FROM PAST AIR DISASTERS

Department of Commerce/Auditorium (enter on 14th Street-NW, between Pennsylvania and Constitution Avenues) November 20, 1997

> 1:00 pm - 1:10 pm **Opening Remarks**

James E. Hall (Acting Chairman)

TWA 800 07/17/96 1:10 pm - 2:50 pm

Aurlie Becker

A. Frank Carven, III

Cindy Cox

**Dario Cremades** 

ValuJet 592 05/30/96

Richard F! Kessler, Jr.

CT-43A 04/03/96

Kenneth & Maureen Dobert

**AAEagle 4184** 10/31/94

Jennifer Stansberry

**USAir 427** 09/08/94

Jason D. Averill

USAir 1493 02/01/91

Susan Ellsworth Shaw

**USAir 5050** 09/20/89

Eric Trendel

**United 232** 07/19/89

Janice Brown-Lohr

Pan Am 103 12/21/88

Paul Hudson

**KAL 007** 08/31/83

Hans Ephraimson-Abt

2:50 pm - 3:00 pm Closing Remarks **Acting Chairman Hall** 

Closed meeting (room TBD). Closed to the public for reasons of 3: 00 **pm - 4:00 pm** 

national security. FBI and CIA will present briefings on profiling

and the National Intelligence Estimate.

## WHITE HOUSE COMMISSION HEARING ON AVIATION SYSTEM MODERNIZATION

Department of Commerce/Auditorium (enter on 14th Street-NW, between Pennsylvania and Constitution Avenues) December 5, 1996

8:00 pm = 9:00 pm Technology Demonstrations
9:00 pm = 12:00 pm Executive Session I

Staff Briefing on Aviation System Modernization

Update on other staff activities

Open discussions

12:00 pm - 1:00 pm Lunch/Technology Demonstrations

1:00 pm - 2:15 pm Executive Session II — Government Perspectives

(15 minute oral/AV testimony)

Government Overview (Gibbons/OSTP)

National Airspace System Modernization Plans (Donohue/FAA)

FAA and Air Traffic Services (Belger/FAA) Modernization Impacts on DoD (Colson/DoD)

2:15 pm Vice President Arrives

2:15 pm - 2:30 pm Vice President's Comments

2:30 pm - 3:30 pm Open Session I - Aviation System Technologies

(10 minute oral/AV testimony)

Future of U.S. National Airspace System (Baker/RTCA)
Air Traffic Management Technologies (Fearnsides/Mitre)
Advanced Ground Proximity Warning Systems (Soliday/UAL)

Automatic Dependent Surveillance (Stone/RTCA)

3:30 pm - 4:00 pm Break/Technology Demonstrations

4:00 pm - 5:00 pm Open Session II — User/Provider Perspectives

(5 to 7 minute oral testimony)

Large Transport Industry (Merlis/ATA)
Regional Airlines (Coleman&AA)
Business Aviation (Olcott/NBAA)
General Aviation (Chapman/AOPA)

Airline Pilots (O'Brien/ALPA)

Air Traffic Controllers (Krasner/NATCA)

Maintenance Technicians/Safety Inspectors (Johnson/PASS)

5:00 pm- 5:15 pm Vice President's Closing Comments

5:15 pm Vice President Departs

5:15 pm Adjourn

### WHITE HOUSE COMMISSION HEARING ON AVIATION SAFETY

Department of Commerce/Auditorium January 16, 1997

8:30 am-12:30 pm Executive Session I

Staff Briefing on Safety & Rulemaking

Aging Aircraft (Loh) Future Schedule (Kauvar)

**Open Discussion** 

This session will be conducted at the Department of Commerce/Conference Room #1859 (enter on 14th Street-NW, between Pennsylvania and Constitution Avenues).

2:00 pm Vice President Arrives

2:00 pm- 2:15 pm Vice President's Opening Remarks

2:15 pm- 2:35 pm Open Session I -Aviation Safety Overview

Aviation Safety Today (Charlie Higgins/Boeing)

Future Needs in Aviation Safety (Al Prest/Aviation Safety

Steering Comm)

2:35 pm - 3:35 pm Open Session II - Aviation Safety Regulation and Certification

FAA's Rulemaking Process (Webster Heath/McDonnell

Douglas/ARAC)

Impact of Safety Regulations on Small Operators (Kurt

Herwald/NATA)

Impact of Safety Regulations on Large Operators (Roger

Fleming/Ret/ATA)

The Airline Pilot's Perspective (Richard Duxbury/Air Line Pilots

Assn.)

Certification of the Modern Jet Transport (Chet Ekstrand/Boeing)

Propulsion System Certification (Mike Hudson/Allison)

Certification and Regulation from General Aviation Perspective

(Bill Schultz/GAMA)

3:35 pm- 3:45 pm BREAK

3:45 pm- 4:45 pm Open Session III -Aviation Safety Management

The Safety Culture in Aviation (Carroll Suggs/Petroleum

Helicopters, Inc.)

Safety in Aviation Maintenance (James Conley/IAM&AW) Safety in Flight Training (Douglas Schwartz/Flight Safety Int'l.) Safety Management in the Airline Industry (Ed Soliday/United

Airlines)

4:45 pm - 5:00 pm Vice President's Closing Remarks

5:00 pm Vice President Departs

5:00 pm Adjourn

### APPENDIX F

### WHITE HOUSE COMMISSION STAFF

Gerald B. Kauvar, Staff Director. Dr. Kauvar served eighteen years in the Office of the Secretary of Defense. He was detailed to the Commission from the position of Deputy Director, Programs and Evaluation, Office of the Chief of Staff, United States Air Force.

Audrey Adams, U.S. Customs Service

Nancy Best, National Aeronautics and Space Administration

William R. Boesch, Consultant (ret. American Airlines)

Patricia R. Burgess, Bureau of Alcohol, Tobacco, and Firearms

James Chapek, Sandia Laboratories

Mary Ellen Cole, Central Intelligence Agency, DCI Counterterrorism Center

Lt. Col. Rick Dugan, United States Air Force

Gerald L. Epstein, U.S. Department of Energy/White House Office of Science and Technology Policy

Doug Farbrother, National Performance Review

Carolina E. Forrester, Federal Aviation Administration

D. Lynn Gordon, U.S. Customs Service

Eric Johnson, U.S. Department of Transportation

Lisa A. Jung, Office of the Secretary of Defense

Charles E. Keegan, Federal Aviation Administration

John F. Hennigan Jr., Federal Aviation Administration

Charles H. Huettner, National Aeronautics and Space Administration

Doug Lambert, Bureau of Alcohol, Tobacco, and Firearms

John I? Lenihan, U.S. Customs Service

Howard W. Luker II, Federal Bureau of Investigation

Laurie Lyons, National Performance Review

Major Diana R. Malone, United States Air Force

Jeff Morales, National Performance Review

Stephen G. Moran, Office of Science Technology and Policy

Major Steve Moss, USAF, National Performance Review

Max D. Payne, Federal Aviation Administration

Richard K. Pemberton, U. S. Department of Transportation

Michael Perron, U.S. Customs Service

Christina Quash, Office of the Secretary of Defense

Armen A. Sahagian, Federal Aviation Administration

Daniel P. Salvano, Federal Aviation Administration

Herb Schlickenmaier, National Aeronautics and Space Administration

Dr. Russell D. Shaver, The MITRE Corporation

Lisa T. Simmons, U.S. Department of Transportation

Bob Stone, National Performance Review

H. Lee Tucker, Federal Aviation Administration

Greg Woods, National Performance Review

Edwin L. Worthington, Federal Bureau of Investigation

### APPENDIX G

### SPECIAL ACKNOWLEDGMENTS

## We wish to extend our thanks to the following people who provided extraordinary assistance to the Commission.

Ms. Carol Carmody, U.S. Representative to the International Civil Aviation Organization

Mr. Michael Diech, Office of Management and Budget

RADM Cathal Flynn, USN (Ret), Federal Aviation Administration

Mr. Richard Haver, Central Intelligence Agency

Dr. Elaine Kamarck, Senior Policy Advisor to the Vice President

Ms. Nancy McFadden, General Counsel, Department of Transportation

RADM Paul J. Pluta, Office of Intelligence & Security, Dept. of Transportation

Ms. Dorothy Robyn, Council of Economic Advisors

Ms. Karen Wehner, Senior Advisor to the Under Secretary of the Treasury

## We wish to to extend our thanks to the following people who provided technical advice and special support to the Commission.

Mr. Alan Agor, Federal Aviation Administration, Civil Aviation Liaison Office, Tokyo

Mr. James J. Aldo, Vivid Technologies

Ms. Sharon Barcaloo, Office of Management and Budget

Mr. Israel Boim, Air Security International

Ms. Leeann Brackett, Office of the Vice President

Mr. Guy Broadhurst, Northrop Grumman

Ms. Evie Burch, Department of Transportation, Directorate of Security

Mr. and Mrs. Kenneth Dobert, Family Advocates

Mr. John Doty, National Imagery and Mapping Agency

- Ms. Cindy Dominik, Federal Aviation Administration
- Mr. Hans Ephraimson-Abt, Family Advocate
- Mr. Jack Fearnsides, The MITRE Corporation
- Mr. Jamie Finch, National Transportation and Safety Board
- Mr. Peter Goelz, National Transportation and Safety Board
- Ms. Linda Hess, Department of Commerce
- Mr. Douglas J. Hills, The ADI Group
- Dr. Robert Hyde, Georgia Technical Research Institute
- Ms. Lou Kleppinger, George Washington University
- Mr. John Klinkenberg, Northwest Airlines
- Ms. Heidi Kukus, Office of the Vice President
- Dr. Darrell Lamm, Georgia Technical Research Institute
- Mr. James Lytle, General Services Administration
- Mr. Kevin Maher, Department of Transportation
- Ms. Stephanie Mayo, General Services Administration
- Mr. Larry Magid, Office of Management and Budget
- Mr. Douglas L. McMakin, Battelle Pacific Northwest Laboratories
- Ms. Kathy Montgomery, General Services Administration Security Office
- Ms. Wendy New, Office of the Vice President
- Mr. Steve Okun, Department of Transportation
- Mr. James F. Padgett, Federal Aviation Administration
- Lt. Col. Jim Pennock, Office of Assistant Secretary of the Air Force for Acquisition
- Mr. Paul Pillar, Central Intelligence Agency Counterterrorism Center
- Dr. Jerrold Post, George Washington University
- Mr. John Rendon, The Rendon Group

Mr. Allan Rivlin, Department of Health and Human Services

Mr. Robert Ross, Department of Transportation

Mr. Wendell Sims, Federal Aviation Administration, Civil Aviation Security Liaison Office, Bangkok

LTCOL Deb Smith, USA, Office of the Vice President

Mr. Ron Smith Georgia Tech Research, Inc.

Mr. Roy Sutherland, International Civil Aviation Organization

Dr. Stephen J. Trachtenberg, President, The George Washington University

Dr. George Vogel, Wright Laboratory

Mr. Rodney Wallis, Rodney Wallis Associates, Ltd.

Mr. Jim Washington, Federal Aviation Administration

Mr. David Watrous, RTCA, Inc.

Mr. Ron Willis, George Washington University

Mr. Mark Wunderlich, Wright Laboratory

The Boeing Company



#### APPENDIX H

## SPECIAL ACKNOWLEDGMENTS FROM THE COMMISSIONERS

Each of the Commissioners wish to express our thanks to President Clinton for giving us the opportunity to serve on the White House Commission on Aviation Safety and Security and thereby to contribute to these important issues.

We wish to especially thank Vice President Gore, our chairman, for his strong personal leadership and in-depth involvement with us throughout our effort.

Finally, we wish to salute Dr. Gerry Kauvar and all of the members of the Commission staff They worked tirelessly and made extraordinary efforts to ensure that every issue was fully researched and that individual Commissioners had every opportunity to personally talk to many experts with opinions on all sides of the issues before us. We are grateful to the staff members for their dedication and wish to acknowledge that the success of the Commissioners efforts rest in a large part on the quality and effectiveness of this superb staff.

# APPENDIX I COMMISSIONER CUMMOCK DISSENT LETTER





Vice President Albert Gore, Chairman White House Commission on Aviation Safety and Security 18th and F Streets, N.W. Washington, D.C. 20405

February 19, 1997

Re: Dissent with the Final Report of the White House Commission on Aviation Safety and Security

Dear Mr. Vice President:

It is after much thoughtful consideration and with a very heavy heart that I register my dissent with the final report of the White House Commission on Aviation Safety and Security. Sadly, the overall emphasis of the recommendations reflects a clear commitment to the *enhancement of aviation* at the expense of the Commission's mandate of enhancing aviation *safety and security*. Clearly, as a nation we have the capability to do all three, but sadly as a Commission have not had the moral courage nor will to do so.

History has proven the aviation industry's lack of sincerity and willingness to address safety and security on behalf of their customers by continually citing misleading safety statistics as their rationale for inaction. Valid statistics compare apples to apples, yet repeatedly we are inundated with apple to orange comparisons by the industry.

Specifically, we must compare injuries and deaths of <u>PASSENGERS ABOARD MASS</u>
<u>TRANSPORTATION</u>, not invalid comparisons to automotive injuries and deaths. Even more far fetched was the comparison made to the Commission by Charles Higgins, a Boeing VP citing aviation safety statistics versus household related injuries and death. Yes living is risky, but clearly flying is riskier than traveling on a bus or a train. Last year alone hundreds of passengers died aboard scheduled flights, a far cry from the number of passenger deaths onboard public busses or trains.

Detailed below are specific objections to the various passengers and/or air disaster victims issues pertaining to aviation safety and security. Most were raised by family members of the victims of numerous air disasters, ranging from TWA 800, Valujet 592, Sec. Ron Brown's plane, KALO07 and Pan Am 103. Some previous recommendations were omitted entirely, others were included but reduced to a nebulous inactionable mention, while a large number contained language that was either unnecessarily misleading or non-specific in order to give the perception of recommended change.

These are the standards that I have applied in evaluating the Commissions' recommendations:

- (a) Specificity
- (d) Accountability
- (b) Responsibility
- (e) Applicability
- (c) Substance
- (f) Timetables/Deadline

Victoria Cummock
President
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PAN-AM 103

#### I. IMPROVING AVIATION SAFETY

1.14 "The commission commends the joint government-industry initiative to equip the cargo holds of all passenger aircraft with smoke detectors, and urges expeditious implementation of the rules and other steps necessary to achieve the goal of both detection and suppression in all cargo holds."

1.14 Is a statement not a recommendation since it lacks:

(a) Specificity (c) Sub tince (d) Accountability (f) Timetable-Deadline

-Require the immediate installation of smoke detectors and fire suppressants in all passenger planes' cargo holds.

Rationale: There are approximately 2,900 airplanes without smoker detectors and fire suppressants that regularly fly passengers with hazardous materials and dangerous cargo in the class D cargo holds, The current partial, voluntary deployment of smoke detectors is limited to a handful of airlines, with no time table for completion of installation. Installation of FAA certified fire suppression systems (currently in use on class C cargo holds, new 777 and other planes) must also be mandated. Both systems must be mandated immediately since each are essentialfor survivability ofpassengers; detectors warn the cockpit of a problem, while suppressants buys time to land the plane. Estimated cost 30 cents per ticketed passenger.

- Mandate installation of passenger protective breathing apparatus effective against smoke, toxic fumes and oxygen deprivation.

Rationale: Existing breathing apparatus technology is over 20 yr. old and limited only to oxygen deprivation, but does not brotect bassengers from smoke or toxic fumes in the cabin. Enhanced breathing apparatus technology is available and FM certified. The FAA certified technology is on military planes, used by crews on passengerplanes, used on Air Force One and Two and numerous corporate/private planes. Commercial passenger planes should provide equal standard of protection for passengers by providing FM certified protective breathing apparatus currently used by crews. Estimated cost 4 cents per ticketed passenger.

- Ship hazardous materials and dangerous cargo on "cargo carriers" until smoke detector. fire suppressant and Protective breathin g apparatus technology are installed on "passen per carriers" for passenger use.

<u>Rationale:</u> Untilpassengers can adequately be protected and increase their survivability from smoke and toxic fumes in the cabin, remove all unnecessary dangerous cargo and hazards materials from passenger carriers.

1.13 "The FAA should eliminate the exemptions in the Federal Aviation Regulations that allow passengers under the age of two to travel without the benefit of FAA approved restraints."

1.13 Recommendation lacks: (a) Specificity (f) Timetable/deadline

-Require immediate use of FAA certified babyseats for all children under two vrs.

\*\*\*\*\*

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#### I. IMPROVING AVIATION SAFETY (Continued)

1.5 "Cost alone should not become dispositive in deciding aviation safety and security rulemaking issues."

1.5 Recommendation lacks: (a) Specificity (b) Responsibility (c) Substance (d) Accountability (f) timetable/Deadline

- Waive FAA/DOT\_cost/benefit\_requirement\_criteria\_in\_deciding\_safety\_and\_security\_rulemaking\_issues\_

Eliminate FAA's authority to issue private or secret exceptions/waivers to safety and security rules, except in very limited and controlled circumstances..

Rationale: Airlines and airports regularly obtain indefinite waivers to safety and/or security rules without knowledge or oversight creating an ineffective regulatory system. Require exceptions or waivers to include a statement of necessity, signed by the air carriers' president, the Assoc. Administrator of FAA for Rulemaking, and reviewed by the FM Administrator and Chairman of the relevant advisory committee.

Any approved waivers or exceptions shall be sent to all members of the FAA's Advisory Committee on Rulemaking (ARAC) and the chairmen of the Senate and House Aviation Subcommittees.

- Limit safety/security exceptions/waivers to no more than 6 months.

Rationale: The use of indefinite waivers or private exceptions to air safety and security regulations must be limited in time to temporary emergency situations. The current indefinite secret waiver system compromises safety and security, and provides certain carriers with unfair competitive advantages over other carriers that are in compliance with a safety or security regulations. Furthermore, such a system amounts to fraud on the public who is led to believe that safety and security standards and regulations are being complied with and enforced. Time limits of 6 months or less will ensure that remedial actions are undertaken promptly by out of compliance carriers, rather than rewarding out of compliance carriers with indefinite waivers.

Pan Am alleged that it bad received prior to the Lockerbie bombing a verbal FM waiver of the security rule requiring hand searching of unaccompanied luggage for Pan Am European locations. Pan Am claimed this waiver allowed it merle to X-ray unaccompanied luggage. It is quite possible that the bomb which destroyed Pan Am 103 could have been discovered if a then excising FAA security regulation had been strictly followed and enforced. The criminal investigation determined that an unaccompanied bag containing a Toshiba cassette played packed with explosives destroyed the jumbo jet over Lockerbie resulting in the worst terrorist attack against US. civilians in history.

#### **III. IMPROVING SECURITY FORTRAVELERS**

With the current day realities of domestic terrorism such as the bombings of the World Trade Center in New York and the Murrah Federal building in Oklahoma City, combined with the numerous successful <u>airmail</u> bombs sent by a variety of disgruntled criminals, the Unibomber, and the recent Egyptian letter bombs, domestically the flying public is now flying less <u>secure</u> than when my husband John and his fellow passengers died aboard Pan Am 103! To-date, both the FAA and Dept. of Transportation have required only minimal changes in aviation security for international flights and have maintained the <u>status-quo\_for</u> domestic flights, not only leaving aviation's back door unlocked, <u>but wide open.</u>

Victoria Cummock

President

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P A N - A M **103**L O C K E R B I E

#### III. IMPROVING SECURITY FORTRAVELERS (Continued)

The security preamble on p.25 effectively ignores the significant measures taken unilaterally by the FAA in the mid- 1985 to protect U.S. International Aviation from bombs in unaccompanied checked baggage (FAA Aircarrier Standard Security Program (ACSSP), Section XV,C,1,(a) July 7, 1985) <sup>1</sup>. It also ignores the joint actions, or is ignorant of, the joint actions by the U.S. Secretary of Transportation and her Canadian counterpart, the Minister of Transport, to get the International Civil Aviation Organization (ICAO) to adopt ICAO Annex 17 Security Standards to protect international aviation against bombs in 1985. This ICAO Security Standard 4.3.1 states:

Each Contracting State shall establish measures to ensure that operators when providing service from that State do not transport the baggage of passengers who are not on board the aircraft unless the baggage separated from the passengers is subject to other security measures.

Note-This Standard has been applicable since 19 December 1987 with respect to the baggage of passengers at the point of origin and on-line transferpassengers. With respect to the baggage of other categories of passengers, the Standard became applicable on 1 April 1989.

This specific ICAO Security Standard was not only significant from the protection it provided against unaccompanied baggage but also because it has the distinction of being ratified by a majority of ICAO Contracting States in a record time of a few months. These actions sometimes take years to win adoption. These are still mandatory ICAO requirements and the U.S. is a ICAO Contracting State and thus is to comply with these procedures internationally.

These ICAO Security Standards, set in the mid to late 1980's, internationally recognized that the primary threat to civil aviation had shifted from hijacking to sabotage requiring specific security measures that both the U.S. and ICAO would undertake to protect air passengers against bombs.

Needless to say, if the public was aware of the test results of the "Red Team" aviation security forces <u>domestically</u> to regularly and successfully breach the so called "Aviation Security" systems, in combination with the aforementioned domestic terrorist acts and threats, they would be shocked and terrified at how much they are currently at risk.

Even of greater concern are that the recommendations in this report will do nothing more than give the flying public the perception of security. They do not provide any tangible or immediate improvement in our security measures. Once again, we will enable the tombstone mentality that is pervasive of the FAA, DOT and the U.S. airlines to continue.

This report contains no specific call to action, no commitments to address aviation security system-wide by mandating the deployment of current technology and training, with actionable timetables and budgets. As the previous commission on aviation security and terrorism noted eight years ago, "The U.S. civil aviation security system is seriously flawed and has failed to provide the proper level of protection for the traveling public. This system needs major reform. Rhetoric is no substitute for strong effective action."

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<sup>1</sup> This FAA ACSSP requirements stated than a U.S. airline could not carry an unaccompanied bag from a designated high-threat international airport unless the bag had been physically searched. This FAA unaccompanied bag requirement preceded the subsequent ICAO Accompanied Bag Standard by 2 1/2 years. Pan American World Airways failure to comply with this FAA security requirement resulted in the PAA-103 tragedy on December 21, 1988 and the airline's conviction of "Willful Misconduct" in U.S. Federal Court on July 10, 1992.



#### III. IMPROVING SECURITY FORTRAVELERS (Continued)

3.2 "The federalgovernment should consider aviation security as a national security issue, and provide substantial funding for capitol improvements."

3.1 Recommendation lacks (c) Substance (d) Accountability (e) Applicability

f) Timetables/Deadlines

- Mandate the establishment of a federal passenger "User Security Surcharge"
- Sequester funds solely to be allocated for the purchase/development:

EDS (Explosive Detection Systems) equipment grant money

- R & D grant money for EDS development for cargo, mail, carry on and checked baggage.
- Standardized Training Programs for Security Personnel
- FBI Fingerprinting/National NCIC Criminal Background Checks
- Deploy hardened baggage containers through attrition
- Interim purchase of automated bag match technology
- Development of Profiling Programs Manual/Automated
- Fund Explosive Detection Canine Teams

The initial \$160 million in federal funds provided by Congress in 1996 was woefully inadequate to address the scope of the problems in U.S. aviation security. There are 450 commercial airports that have obsolete security systems, most of which is 20 yrs. old and designed for anti-hijacking system. This technology provides basic metal detection X-ray technology with no explosive detection capabilities\_for carry on baggage. Outside of the limited deployment of CTX 5000 SP, this is also true for checked baggage. Additionally, this funding does not address inadequate security personnel selection/training).

Likewise, "\$100 million annual recommendation by the Gore Commission.....to meet capitol requirements identified by local airport consortia and FAA" is woefully inadequate to meet anti-sabotage aviation security needs. A "passenger user security surcharge" of (\$4-5) would raise in excess of \$2 Billion a year, swiftly and adequately funding the actual cost to upgrade aviation security to an effective level. A "passenger user surcharge," sequestered only for security is the most viable method to raise the large amount of capitol needed to adequately address the changes system wide, due to the inaccessibility/deficit of general revenue funds and/or aviation trust funds. Security related expenses should not be considered a part of the airlines cost of doing business, but a part of our National responsibility to protect our citizens. "Security" threats typically are not targeted against a specific airline but after the American Flag on the tail of passenger carriers. There must be a clear, consistent source of revenue and commitment in order to adequately protect our citizens.

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Since the bombing of Pan Am 103 there—have been numerous but unsuccessful attempts at "aviation security enhancements" by the former President Bush's Commission on Aviation Security & Terrorism, Congress and two Administrations. For 8+ yr. without an adequate and consistent funding mechanism in place to implement recommendations. levislation's (i.e. "1990 Aviation Security Improvement Act") or regulations, the obsolete security status-quo has prevailed. Note: Section 107(9) "2990 Aviation Security Improvement Act" entitled "Authorization of Appropriations." There are authorized to be appropriated from the Airport and Airway Trust Fund, such sums of money necessary for the purpose of caring out the technology grantprogram." In 7 yr. no security funds were made available due to budget constraints in the Trust Fund



#### III. IMPROVING SECURITY FOR TRAVELERS (Continued)

3.3 "The Postal Service should advise customers that allpackages weighing over 16 ounces will be subject to examination for explosives and other threat objects in order to move by air."

- 3.3 Recommendation lacks: (c) Substance (e) Applicability (f) Timetable/Deadline
- -Mandate immediate examination of all packages weighing over 8 ounces or move them on "cargo" carriers.
- \_-Required the research and development of (EDS) explosive detection systems for mail.

Rationale: Forensic scientists who investigated the bombing of Pan Am 103 estimated that the bomb used contained as little as 9.6 ounces of explosives. While I commend the Commissions' recommendation a more effective and realistic solution is required by changing the recommendation to 8 versus 16 ounces. Additionally, Section 112(b,1)of the "1990 Aviation Security Improvement Act" entitled, "Screening Mail and Cargo" stated "require for mail and cargo the same screening procedures as are requiredfor checked baggage."

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- 3.5 "The FAA should implement a comprehensive plan to address the threat of explosives and other threat objects in cargo and work with industry to develop new initiatives in this area."
- 3.5 Recommendation lacks (a) Svecificity (c) Substance (d) Accountability (f) Timetables/Deadlines
- -Mandate immediate examination of all cargo or move cargo on "cargo" carriers.
- -Required the research and development of (EDS) explosive detection systems for cargo.

Rationale: Profiling relies on the honesty of the shipper and is not an effective security tool in itself since many shippers and freight forwarders regularly combine questionable cargo together that are manifested as "known" shipments. Currently, all express packages shipped by express mail companies are considered as "known" shipments and don not require further scrutiny. Additionally, EDS for cargo has not been developed yet! Additionally, Section 112(b,1) of the "1990 Aviation Security Improvement Act" entitled, "Screening Mail and Cargo" stated " require for mail and cargo the same screening procedures as are requiredfor checked baggage."

- 3.7 "The FAA should work with airlines and airport consortia to ensure that all passengers are positively identified and subject to security procedures before they board aircraft."
- 3.7 Recommendation lacks: (a) Svecificity (c) Substance (e) Avvlicability (f) Timetable/Deadline
- -Eliminate the issuance of advanced boarding passes and require that all passengers, including electronically ticketed passengers, check-in with a airline employee prior to boarding a flight until EDS is utilized systemwide.
- Rationale: Current airline ticketing procedure allows passenger to be issued advanced boarding passes with seat assignments. Passengers with advance issued boarding passes can walk directly to the jet bridge entrance at the boarding gate, present the boarding pass to an airline employee, and have a cursory security and identification take place. While this procedure provides a convenience

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#### **III. IMPROVING SECURITY FOR TRAVELERS (Continued)**

to the passenger, it takes away from airline security procedures. The FAA should implement a regulatory change requiring that all air carriers stop issuing advanced boarding passes and ticketless travel. Require all passengers including those participating in electronic ticketing to check-in at an airline counter or gate check-in desk prior to boarding, until explosive detection technology is in place for passenger carry on bags and checked baggage.

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3.10 "The FAA should work with industry to develop a national program to increase the professionalism of the aviation security workforce, including screening personnel."

### 3.10 Recommendation lacks: (a) Specificity (b) Responsibility(c) Substance (d) Accountability (e) Applicability (f) Timetables/Deadline

Rationale: This recommendation contains a number of admirable objectives but it, like its predecessor recommendation in President Bush's Commission on Aviation Security and Terrorism Lacks teeth. Following President Bush's Commission of Aviation Security and Terrorism and the follow-on Aviation Security Improvement Act in 1990, the FAA established standardsfor the selection and training of aviation security personnel. Those standards were, and still are, totally inadequate. There is nothing to prevent the same inadequate actions by the FAA to this recommendation. The Commission should specifically recommend that the FAA mandate 80 hours of intensive classroom/laboratory and 40 hours of On-the-Job training before performance certification for all airline security screening personnel.

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3.11 "Establish consortia at all commercial airports to implement enhancements to aviation safety and security."

#### 3.11 Recommendation lacks (b) Responsibility (d) Accountability (f) Timetables/Deadline

- Reauire all 450 Commercial Airports to immediately establish a local consortia to implement safety and security FAA and DOT mandates

Rationale: Only about 10% or 41 out of 450 commercial airports bave established consortia. Since effective security is as good as its weakest link, a system wide approach to implement federal standards must be required. The local consortia role should be Limited to executing minima/federal safety and security standards not to determining the federal standards. For example, the consortia can determine the best placement for deployment of EDS but not if; bow many or when to install explosive detection systems.

3.13 "Conduct airport vulnerability assessments and develop action plans."

#### 3.13 Recommendation lacks (a) Specificity (d) Accountability (f) Timetables/Deadline

Rationale: This recommendation does not contain criteria to ensure that follow-up actions are taken to problems identified during vulnerability assessments. The recommendation for FAA "Red Teams" test of airport security systems outlined in 3.21 should be tied to this recommendation to ensure that these assessments do not continue the incestuous process where security problems are rationalized away and no corrective actions are taken within a specified period of time. Additionally, a dis-interested third party should be contracted to work with the FAA to conduct airport and/or airline tests in order to avoid a conflict of interest.

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PAN-AM 103

#### **III. IMPROVING SECURITY FORTRAVELERS** (Continued)

3.24 "Require criminal background checks and FBI fingerprint checks for all screeners, and all airport and airline employees with access to secure areas..... The Commission reiterates that the overall goal is FBI fingerprint check of all airport and airline employees with access to secure areas, no later than mid-1999"

#### 3.14 Recommendation lacks (a) Specificity (b) Substance (f) Timetable/Deadline

Require immediate and direct access to NCIC III for comprehensive evaluations of screeners and all individuals with unescorted access to secure areas of airports. NCIC will be used as a "trigger" for a FBI criminal record prior to granting unescorted access to secure areas. Use NCIC as an interim measure pending IAFIS for conducting fingerprint generated FBI criminal history checks by mid - 2999.

The aviation industry must be required to provide the same degree of employment security review that is currently required of employees hired by banks and security exchange companies. Double standards must de eliminated to adequately protectpeoples lives equal to protecting peoples money. The FM Reauthorization Act of 1996" section 304 entitled "Requirement for criminal history checks" did not require security checks equal to that of the banking or securities industries. The legislation allows for ineffective "local" criminal background checks on the basis of an array of triggering criteria such as "(I) an employment investigation leaves a gap in employment of 12 months or more." etc. The "1990 Aviation Security Improvement A&section 105 (2 a-c) required national criminal history checks as did the Bush Commission on Aviation Security and Terrorism. We can not expect to have any meaningful security measures implemented if the background of thousands of airport personnel is potentially questionable

3.15 "Deploy existing technology."

#### 3.15 Recommendation lacks: (a) Specificity (c) Substance (f) Timetable/Deadlines

Rationale: This recommendation is far too nebulous and vague. It like many other recommendations contain no deadlines and is quite non-specific in addressing several needed technology additions to the US. aviation security system. The statement recognizing "...that deployed technology for examining carry-on baggage The Ife outdated" tas a major understatemethat the technology currently in use efor examining carry-on baggage is not capable of automatically detecting explosives, and in many instances is not even capable of imaging explosives compounds. I believe that an unequivocal recommendation should be made to change out all technology that is currently used to screen carry-on luggage. Moreover, I believe that on-going research that is funded by the FM should be accelerated to complete the development and deployment of walk-through trace explosives detectors that can be used to examine passengers for explosives residues. Additionally, the deployment of 54 advanced explosive detection systems for checked bag to cover 450 commercial airports does very little to catch up with 20 yr. of technology advancements in a meaningful way to protect the flying public.

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PAN-AM 103

LOCKERBIE

#### **III. IMPROVING SECURITY FORTRAVELERS (Continued)**

3.16 "Establish a joint government-industry research and developmentprogram.

#### 3.16 Recommendation lacks: (c) Substance (d) Accountability(f) Timetable/Deadline

Rationale: The current \$3 million FAA R&D budget is totally inadequate to research & develop technology for screening cargo, mail, checked bag, carry on bags and passengers. Adoption of a "Passenger Security Surcharge" of (\$4-5) could generate substantial revenue to adequately accelerate the aviation R&D process, deploy existing technology and provide adequate security personnel training programs.

3.19 "Compliment technology with automated passenger profiling."

#### 3.19 Recommendation lacks: (c) Substance (e) Applicability (f) Timetables/Deadlines

Rationale: I agree that profiles can be most useful as an overall part of a multi-layered security system.

This recommendation has placed an over-reliance, and therefore unrealistic expectations on an early development and the widespread application of an automated profile system. The historical review of attempts to automate profiles within airline's computer system takes us back to the mid-19801 when a fledging attempt was made to do so by TWA. I believe that a realistic implementation date for a fully automated profile system that interfaces with law enforcement and intelligence agencies will take severally ears to accomplish. I state this mindful of the substantial amount of work that must be done by the FBI, CIA, and BATF (and others) in building terrorist databases on which detailed profile elements can be built. In addition, interfacing any such data base with airline computer systems will, in itself; be a major undertaking.

Nonetheless, I recognize that a limited automated profile system such as Northwest Airlines' CAPS can be developed and implemented more quickly. While I applaud and support the effort to automate the CAPS system I doubt that the additional programming for CAPS use outside of the Northwest Airlines system can be completed by August 1997. In the interim I urge the FAA mandate the use of manual profiles to identify the small minority of passengers that may merit additional attention.

Another serious concern regarding the recommended use of profiles to trigger the use of a passenger/baggage match. This process is actually less effective than the procedures Pan Am was using (illegally) that led to the destruction of Pan Am 103 on December 21, 1988. If profiles are a necessary part of a good layered security system then full baggage/passenger match is as well. The recommendation to base passenger/baggage match on profile and random selectees is unacceptable. I believe that both security efficiency techniques, i.e., profiles and full bag/passenger match, should be equally applied throughout the US. aviation security system. In fact full automated baggage/passenger match procedures can be implemented immediate—Zy and provide an immediate substantive increase in our aviation security system. As noted above, this is not so for the recommended automated profile system in 3.19.

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#### III. IMPROVING SECURITY FORTRAVELERS (Continued)

3.20 "Certify screening companies and improve screener performance."

3.20 Recommendation lacks (a) Specificity (d) Accountability (e) Applicability f) Timetables/Deadlines

- FAA mandate 80 hours of intensive classroom/laboratory and 40 hours of On-the-lob training, before performance certification, for all girline security screening personnel.

Rationale: Currently, screeners typically receive 8 hr. of combined class room and on-the-job training.

Most security screeners are minimum wage employees required to buy their uniforms and pay for parking daily. Airlines typically pay airplane cleaners more that security screeners, hence a 200-400 % employment turnover rate exists for security screeners.

Security screeners are an integral part of a effective security system. Security screeners must be selected and trained adequately, paid fairly and given the appropriate technology tools to do their job.

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- 3.23 "Give properly cleared airline and airport security personnel access to the classified information they need to know."
- 3.23 Recommendation lacks: (a) Specificity (c) Substance

Rationale: It is my understanding that the problem of distribution of classified intelligence information

extends to FAA Regional and Field facilities. Here the primary problem is no one without clearance is to

see classified data (the persons needing access are FAA employees). In this instance it is a problem of a failure of the FAA to establish a requirement or their employees to see the data and to establish a means of

rapid distribution of the information to its own field employees.

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- 3.24 "Begin implementation of full bag-passenger match...the Commission believes that bag match, initially based on profiling, should be implemented no later than December 31, 1997......By that date, the bags of those selected either at random or through the use of automated profiling must either be screened or matched to a boardedpassenger..."
- 3.24 Recommendation lacks: (a) Specificity\_(b)\_Responsibility(c) Substance (d) Accountability
  (e) Applicability (f) Timetables/Deadline

Rationale: The recommendation states that "the Commission remains committed to baggage match as a component of a comprehensive, layered security program aimed at keeping bombs and explosive devices off airlines" but subsequent comments tie bag-match to profiles and random selections. I do not take issue that bag-match should de specifically applied to "profile selectees" and/or random selection of passengers as both these measures are a welcome addition to our aviation security system. I do however, adamantly object to a failure to endorse the immediate application of a full-baggage/passenger match.

The enclosed detection matrix in Figure 1 (seep.) illustrates that the terrorist bomb that downed Pan Am Flight 103 on December 21, 1988 would only have been caught by either a \$&baggage/passenger match or through and examination of the suitcase carrying the bomb using the new CTX-5000SP EDS. Applying ap rolite in this instance would not have worked because there was newer a passenger ever associated with the bag containing the bomb. Since you can only profile passengers (not bags) the bag with the bomb would not have been detected.

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#### **III. IMPROVING SECURITY FORTRAVELERS (Continued)**

As there are no current plans to screen <u>all</u> baggage using a CTX-5000SP EDS then the only reliable security counter measure (see Figure 1 detection matrix) available to serve as an alert to a Pan Am-103 type of attack is the full-bag/passenger match. Therefore the recommended application of a bag-match to a "profile selectee", i.e., a passenger, will not catch a Pan Am-103 type of attack. The second approach is to applying a bag-match was to randomly select passengers. (see Figures 2-3 p. ) As no passenger was ever associated with the Pan Am-103 bomb then this part of the recommendation to apply a bag-passenger match to randomly selectedpassengers would also not stop a Pan Am-103 type of attack. I cannot accept this recommendation as Pan American World Airways was illegally using an originating passenger bag-match (partial passenger-bag match) procedure that resulted in the death of my husband and 269 other people. To do so would be unconscionable.

#### IV. RESPONDING TO AVIATION DISASTERS

**4.3** "The Department of Transportation and the NTSB should implement key provisions of the Aviation Disaster Family Assistance Act of 1996 by March 31, 1997......The Commission urges the task force to consider the development of uniform guidelines.."

4.3 Recommendation lacks (a) Svecificity (c) Substance (e) Avvlicability and actionable timetable.

4.3 "Air Disaster Family Assistance Act" Title VII, section 705 of the "FAA Reauthorization Act of 1996" requires the establishment of a joint task force, including "families which have been involved in aircraft accidents."

Task force should address and develop uniform federal standards for:

- Civilians killed ongovernmentplanes
- -American passengers on U.S. carriers that crash internationally.
- -Notification procedures of air disasters
- -Autopsy procedures
- -DNA testing
- -Care and disposition of unidentified remains (i.e. knowledge and consent by next-of-kin prior to burial or disposition)
- -Personal possession decontamination, return and/or disposition (i.e. knowledge and consent by next-of-kin prior to disposition)
- -Media access to survivors and victims families
- -Legal solicitation/Access to survivors and victims families
- -Develop and distribute a "Disaster Response Information Pamphlet" to air disaster victims and theirfamilies.

Rationale: "Implementation of key provisions of the act by March 31, 1997" can only be accomplished with the input of all parties as cited by the law (including the victims families). Family representatives have not been named or included in a task force nor provided equal access to work group meetings or received underlying documents to allow them to assist in the work in progress. Additionally, representation of both the legal and media are a necessary part of the process to develop guidelines and negotiate the MOU (memoranda of understanding) between all organizations responding to air disasters.

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#### **IV. RESPONDING TO AVIATION DISASTERS (Continued)**

"The U.S. Government should ensure that family members of victims of international aviation disasters receive just compensation and equitable treatment through the application of federal laws and international treaties."

- 44 Recommendation lacks: (a) Specificity (e) Applicability (f) Timetable/Deadline
- 4.4 Restore passenger rights whether crashes occur over land, territorial waters or over the high seas.

  Equality in awardable damages can be restored by amendment to 49 U.S.C. 40120.

Rationale: Currently the application of law for aircraft that crash over water (three miles or more off shore) is based on a 1920's treaty "Death on the High Seas Act," limiting liability of air carrier or manufacturer up to \$2,300. Ironically, DOHSA was adopted prior to start of commercial passenger air transportation, yet it still applies to air disasters such as recently as TWA 800, Aeroperu, KAL007 and others. Since all international flights and most domestic landing approaches on our coasts are over water this unjust and inequitable system must be abolished. Airlines and manufacturers have hidden Behind DOHSA indefinitely avoiding swift and adequate compensation of victims families requiring prolonged trial lasting over a decade.

- Provide the same venue (U.S. Courts jurisdiction) for U.S. citizens regardless of where their tickets were bought, changed or if they live abroad. U.S. jurisdiction can be obtained by amendment to 49 U.S.C. 40105.

Rationale: Presently, US. citizens are afforded US. courtjurisdiction only if their ticket was purchased in the US. Over 5 million Americans live, work and travel outside the US. depriving them and their families of swift and adequate damages in case of air disasters. Airlines and manufacturers have hidden behind jurisdictional issues to indefinitely avoiding swift and adequate compensation of victims families requiring prolonged international trials lasting over a decade and compensatory damages or awards paid in foreign currency.

<u>-Require uniform certification standard and mandate adequate levels of liability insurance on all non-scheduled commercial passenger air travel (i.e. charters)</u>

Rationale: Privatization and deregulation has created a sizable market of non scheduled air entities that regularly transport private citizens, government employees and military. Many private charters temporarily lease aircraft and crews with questionable certification, maintenance and recurrent training putting unwitting passengers at great unnecessary risk. Mandate equal requirement levels of certification for scheduled and non-scheduled passenger flights. Note: Most personal life and travel insurance policies exclude payment of charter related claims since charters do not afford passengers the established scheduled commercial passengers air travel safety standards.

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Families of

PAN-AM 103

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#### CONCLUSIONS

In summary, the final report contains no specific call to action, no commitments to address aviation safety and security system-wide by mandating the deployment of current technology and training, with actionable timetables and budgets. Later attempts to track these recommendations will result in problems with differing agency interpretations, misunderstandings, and outright opposition to implementation by individuals and/or organizations who oppose the specific recommendations.

I recommend that time limits for completion be added to all recommendations that have no deadlines and that all recommendations be re-written for specific actions by specific agencies with an accountability matrix added for follow-on actions to ensure that the recommendations are implemented. Without specifics, once again we will allow the airlines to lead and the government follow as to what is necessary to secure the flying public.

Sadly we remain, as noted eight years ago, by our predecessor commission, President Bush's Commission on Aviation Security and Terrorism which concluded that, security system is seriously flawed and has failed to provide the proper level of protection for the traveling public. This system needs major reform. Rhetoric is no substitute for strong, effective action."

At best, these recommendations allow and encourage more research, more pilot programs and more analysis. Once again, it leaves in place domestically and internationally, highly limited anti-hijacking machines that provide basic metal detection X-ray technology with <u>no explosive detection capabilities</u> for carry on baggage. Outside of the limited deployment (54 units) of CTX 5000SP, this is also true for checked in baggage.

Until Explosive detection technology is ordered in sufficient quantities and deployed system wide, specific efficiency measures must be implemented to identify which bags out of the millions transported annually need further-scrutiny. Matching bags to passengers does this. Sadly, the commissions recommendation matches bags only to "Selectees" after profiling. Partial bag match does not allow for the identification of an unaccompanied "rouge" bag since it requires a "passenger Selectee" to trigger matching passengers to their bags and further scrutiny.

The automated profiling system developed by Northwest Airlines and the FAA will rely on the ability of a skycab or a counter check in agent to successfully verify a passengers identity as the same individual the computer profiled. Currently the airlines are not required to collect complete passenger manifest data on either domestic or international flights. We have seen the short comings of incomplete fight manifest information, as evident every time a plane crashes. It often takes the airlines days to notify victims families since without complete names, the airlines don't accurately know who boarded the plane. Profiling will now rely on the incomplete passenger data to produce a "Selectee" in order to identify the bags that need further scrutiny.

While I greatly support the upgrade in training and certification of security screeners and personnel, we can not expect them to adequately perform their jobs in detecting explosives inside carry on bags with minimal training and obsolete 8-20 yr. old anti-hijacking technology designed to detect metal and not explosives. We must deploy state of the art screening technology with at least limited EDS (Explosive Detection) capabilities.

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#### **CONCLUSIONS** (Continued)

In terms of mail and cargo transported on passengers planes, the recommendations do not provide any meaningful degree of protection for the flying public nor require and fund Research & Development of EDS (Explosion Detection Systems). Based on the threat of letter bombs/packages and the systemwide vulnerability that exist in the belly of every passenger plane the recommendations do not provide either a short or long term fix.

Mr. Vice President, we are all aware that any comprehensive security system is as good as its weakest link. Criminals and terrorist will continue to identify and exploit the weakest link in our defenses. Nationally, there are over 4.50 commercial airports with scheduled passenger flights. It is up to the Federal government that regulates the airlines to provide national security standards, adequate funding and actionable timetables. Anything short of that does not fulfill the Commissions mandate of enhancing aviation security in a meaningful way.

The Boeing chart on p.6 projects an aviation accident a week by the year 2015 based on the projected increases in air traffic. That acknowledges 250-300 people will die onboard passenger airplanes a week; 1,000-1,200 a month or projected total deaths of 12,000-15,000 annually! Statistically, that compares weekly commercial aviation deaths to the weekly death toll in the Vietnam War. This is totally unacceptable and an outrage. Commercial air travel need not bear the same risk as going to war.

In closing, Mr. Vice President, I feel that the flying public should be able to put their family members aboard a plane with a great degree of confidence that they will walk off at the point of their destination and not come home in a body bag like my husband did. It is for all the aforementioned safety and security reasons that I can not sign a report that blatantly allows the American flying public to be placed regularly at "unnecessary risk" while we as a nation have the <u>capability</u>, but not the <u>will</u> to reasonably protect them.

For the record, I take objection to the inclusion of any "Classified Annex" to the Final Report of the White House Commission on Aviation Safety and Security. If a classified annex was issued in the name of the Commissioners, it has been included without privying all the Commissioners to the contents, issues, or providing applicable background data or conclusions, with our knowledge or consent.

Sincerely,

M. Victoria Cummock

Commissioner, White House Commission on Aviation Safety and Security

Member, FAA Security Baseline Work Group President, Families of Pan Am 103/Lockerbie

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Widow of John Binning Cummock

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In compliance with the Executive Order 13015 of August 22, 1996, the undersigned present the report of the White House Commission on Aviation Safety and Security.

<u> </u>	. / / /
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James E. Hall	George H. Williams



February 12, 1997

Commissioners

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Staff Director Gerald B. Kauvar President William J. Clinton The White House Washington, DC

Dear Mr. President,

We are pleased to present you with the report of the White House Commission on Aviation Safety and Security. You established this Commission by issuing Executive Order 13015 on August 22, 1996 with a charter to study matters involving aviation safety and security, including air traffic control and to develop a strategy to improve aviation safety and security, both domestically and internationally.

During the past six months, we have conducted an intensive inquiry into civil aviation safety, security and air traffic control modernization. Commission and staff have gathered information from a broad range of aviation specialists, Federal Agencies, consumer groups, and industry leaders.

After many months of deliberations we have agreed on a set of recommendations which we believe will serve to enhance and ensure the continued safety and security of our air transportation system.

We are privileged to submit these recommendations herewith.

Vice President Al Gore, Chairman

P.S. There commissioners Vice President Al Gore, Chairman have worked incredibly hard and proud and conscients with them and present our to be associated with them and present to y